

Data File : VU036152.D
Acq On : 12 Dec 2019 15:55
Operator : JC/MD
Sample : VSTD00502
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

Quant Time: Dec 13 01:24:35 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Dec 13 01:21:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	293870	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	302644	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	152659	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	145443	5.31	ug/L	0.00
7) Chloroethane-d5	1.93	69	126337	4.57	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.60	63	195436	4.14	ug/L	0.00
20) 2-Butanone-d5	4.70	46	241682	52.12	ug/L	0.00
24) Chloroform-d	5.11	84	214984	4.97	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	104651	4.68	ug/L	0.00
32) Benzene-d6	5.77	84	411012	5.15	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.73	67	128062	5.31	ug/L	0.00
41) Toluene-d8	7.93	98	402681	5.45	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.21	79	52712	5.23	ug/L	0.00
46) 2-Hexanone-d5	8.67	63	203931	56.10	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.78	84	113946	5.07	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.22	152	142482	4.75	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	160963	5.368 ug/L	100
3) Chloromethane	1.54	50	193241	6.242 ug/L	100
5) Vinyl chloride	1.62	62	200402	6.245 ug/L	100
6) Bromomethane	1.87	94	117494	4.879 ug/L	100
8) Chloroethane	1.95	64	125130	5.369 ug/L	100
9) Trichlorofluoromethane	2.16	101	248194	4.814 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	122921	4.352 ug/L	100
12) 1,1-Dichloroethene	2.61	96	111356	4.409 ug/L	100
13) Acetone	2.68	43	191208	34.224 ug/L	100
14) Carbon disulfide	2.82	76	374582	5.021 ug/L	100
15) Methyl Acetate	3.00	43	42670	4.921 ug/L	100
16) Methylene chloride	3.08	84	131560	4.322 ug/L	100
17) Methyl tert-butyl Ether	3.42	73	231978	5.113 ug/L	100
18) trans-1,2-Dichloroethene	3.39	96	113631	5.063 ug/L	100
19) 1,1-Dichloroethane	3.92	63	215475	5.314 ug/L	100
21) 2-Butanone	4.77	43	287897	49.183 ug/L	100
22) cis-1,2-Dichloroethene	4.72	96	120275	5.135 ug/L	100
23) Bromochloromethane	5.02	128	60478	5.014 ug/L	100
25) Chloroform	5.14	83	227241	5.089 ug/L	100
27) 1,2-Dichloroethane	5.84	62	134941	5.101 ug/L	100
29) 1,1,1-Trichloroethane	5.36	97	188087	5.261 ug/L	100
30) Cyclohexane	5.43	56	162205	5.676 ug/L	100
31) Carbon tetrachloride	5.57	117	173373	5.357 ug/L	100
33) Benzene	5.82	78	493955	5.636 ug/L	100
34) Trichloroethene	6.58	95	123509	5.338 ug/L	100
35) Methylcyclohexane	6.80	83	178083	5.673 ug/L	100
37) 1,2-Dichloropropane	6.83	63	125550	5.680 ug/L	100
38) Bromodichloromethane	7.14	83	159153	5.415 ug/L	100
39) cis-1,3-Dichloropropene	7.64	75	165789	5.552 ug/L	100
40) 4-Methyl-2-pentanone	7.84	43	645189	55.874 ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	542251	5.775	ug/L	100
44) trans-1,3-Dichloropropene	8.25	75	142265	5.510	ug/L	100
45) 1,1,2-Trichloroethane	8.44	97	92339	5.363	ug/L	100
47) Tetrachloroethene	8.58	164	110292	5.087	ug/L	100
48) 2-Hexanone	8.73	43	491187	60.877	ug/L	100
49) Dibromochloromethane	8.84	129	113831	5.169	ug/L	100
50) 1,2-Dibromoethane	8.96	107	88653	5.444	ug/L	100
51) Chlorobenzene	9.48	112	333997	5.258	ug/L	100
52) Ethylbenzene	9.60	91	507035	5.340	ug/L	100
53) m,p-Xylene	9.72	106	203565	5.351	ug/L	100
54) o-Xylene	10.13	106	191712	5.274	ug/L	100
55) Styrene	10.14	104	338200	5.398	ug/L	100
56) Isopropylbenzene	10.51	105	497396	5.182	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.81	83	116595	5.111	ug/L	100
59) 1,2,3-Trichloropropane	10.85	75	84094	5.343	ug/L	100
61) Bromoform	10.32	173	66475	4.304	ug/L	100
62) 1,3-Dichlorobenzene	11.77	146	264233	5.150	ug/L	100
63) 1,4-Dichlorobenzene	11.86	146	250593	4.994	ug/L	100
65) 1,2-Dichlorobenzene	12.24	146	247668	4.900	ug/L	100
66) 1,2-Dibromo-3-chloropropan	13.02	75	14774	4.706	ug/L	100
67) 1,3,5-Trichlorobenzene	13.24	180	167881	4.998	ug/L	100
68) 1,2,4-trichlorobenzene	13.86	180	84824	4.775	ug/L	100
69) Naphthalene	14.10	128	71628	4.099	ug/L	100
70) 1,2,3-Trichlorobenzene	14.35	180	82653	4.756	ug/L	100

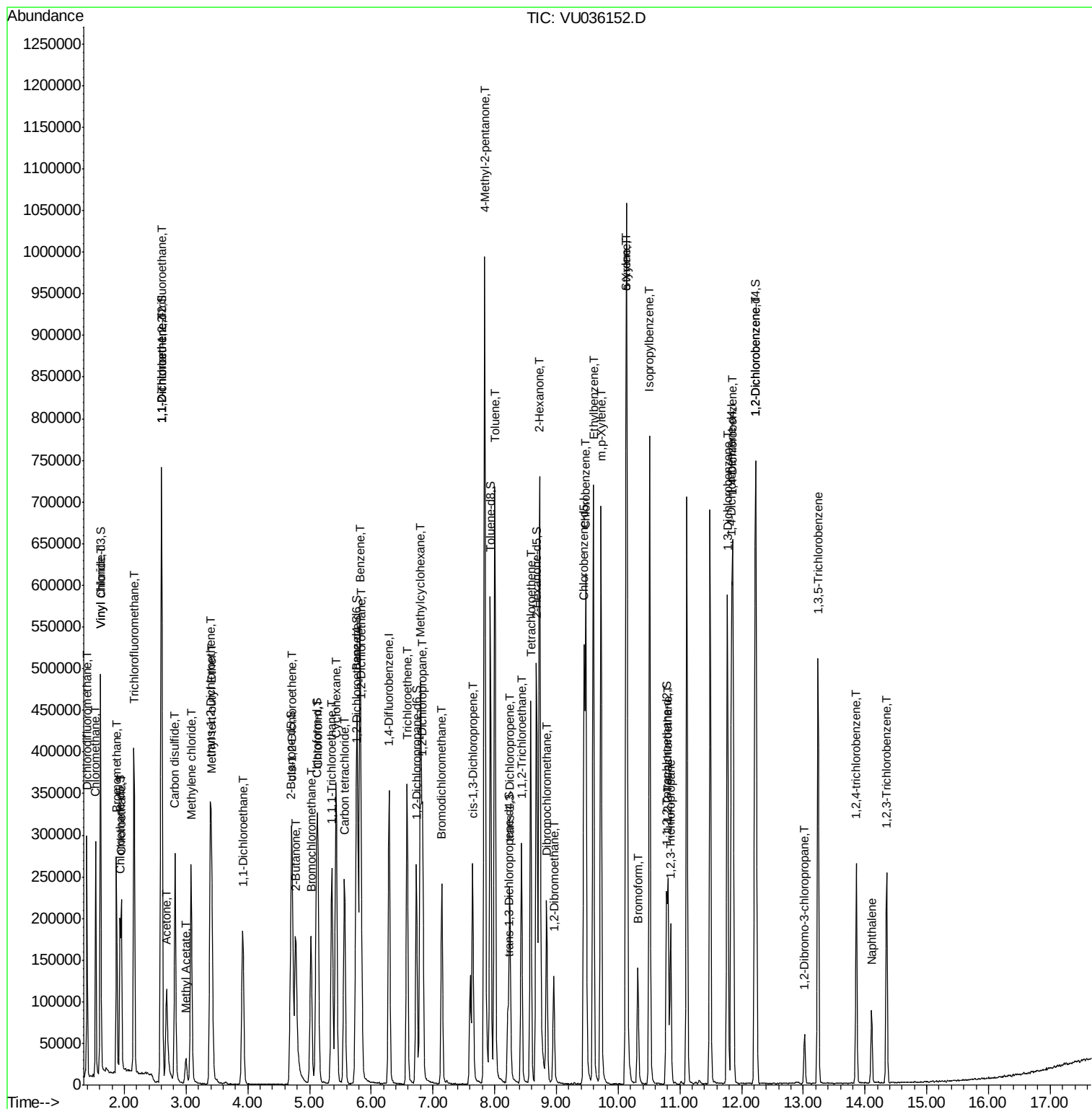
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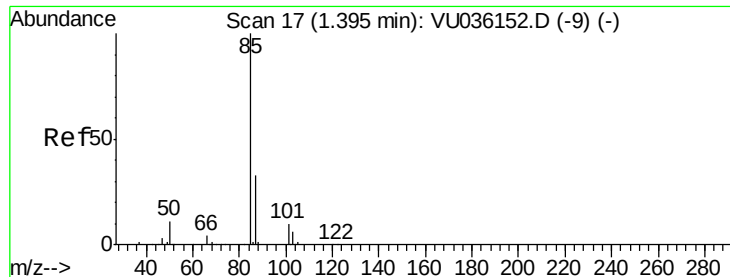
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#2

Dichlorodifluoromethane

Concen: 5.368 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

Instrument :

MSVOA_U

ClientSampleId :

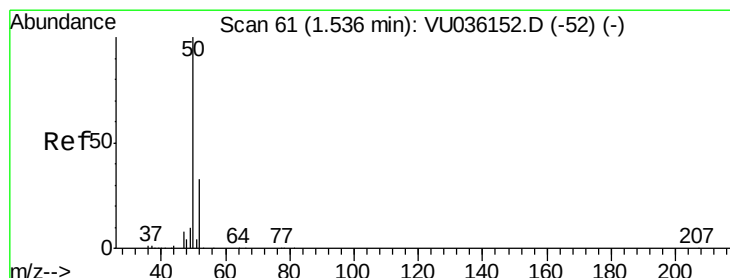
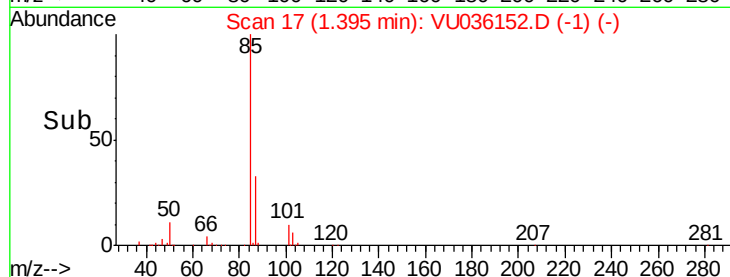
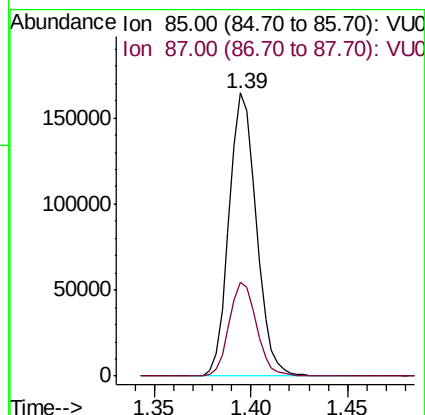
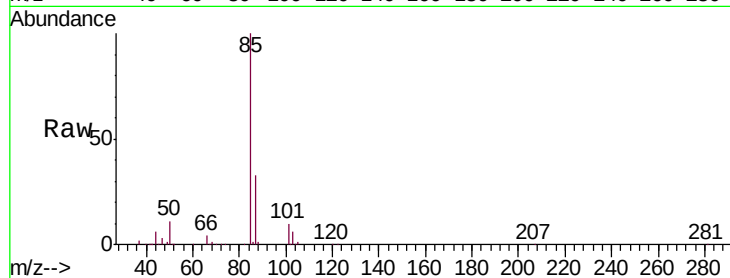
VSTD00502

Tgt Ion: 85 Resp: 160963

Ion Ratio Lower Upper

85 100

87 33.0 26.4 39.6



#3

Chloromethane

Concen: 6.242 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036152.D

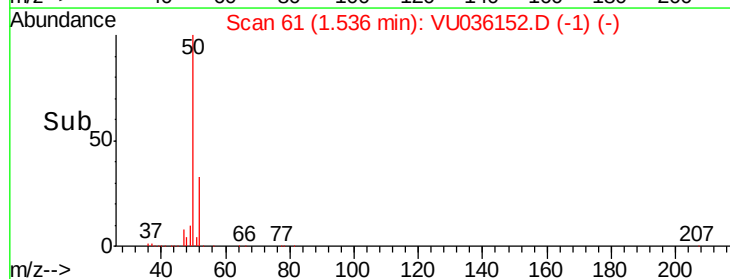
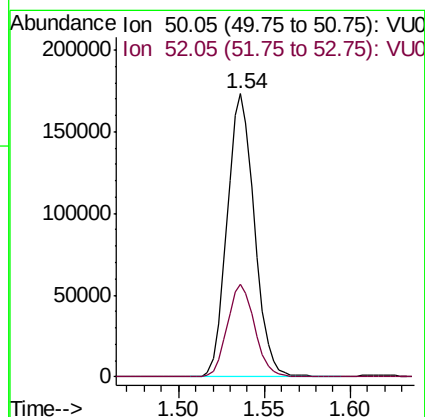
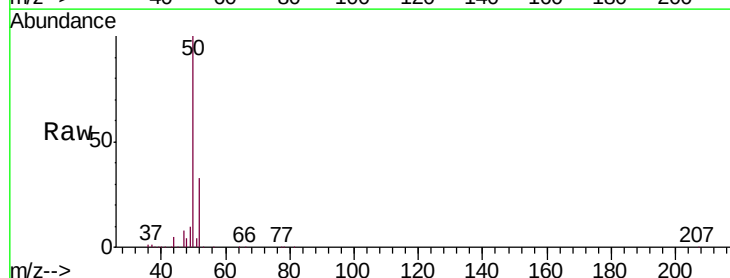
Acq: 12 Dec 2019 15:55

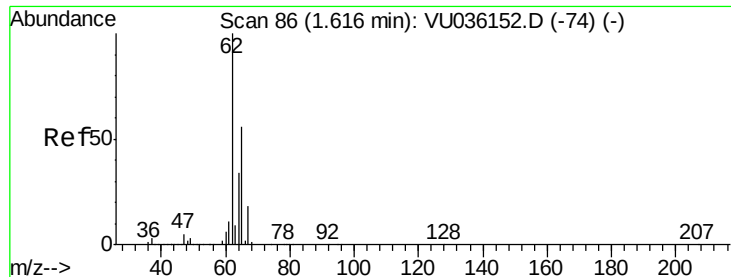
Tgt Ion: 50 Resp: 193241

Ion Ratio Lower Upper

50 100

52 32.9 23.0 42.8





#5

Vinyl chloride

Concen: 6.245 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

Instrument :

MSVOA_U

ClientSampleId :

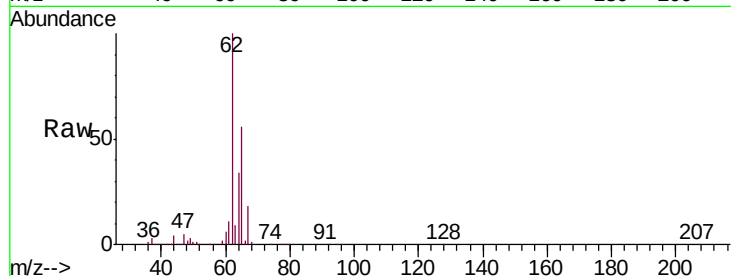
VSTD00502

Tgt Ion: 62 Resp: 200402

Ion Ratio Lower Upper

62 100

64 34.3 24.0 44.6



Abundance Ion 62.00 (61.70 to 62.70): VU036152.D (-74) (-)

Ion 64.10 (63.80 to 64.80): VU036152.D (-74) (-)

1.62

200000

150000

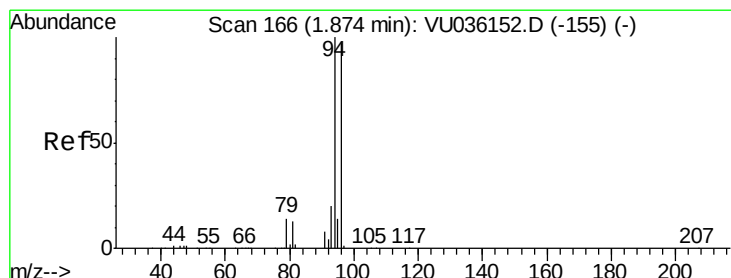
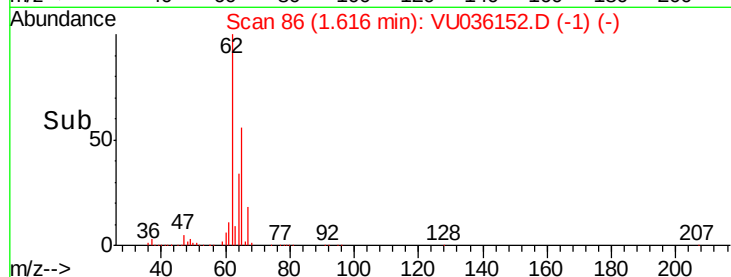
100000

50000

0

1.55 1.60 1.65 1.70

Time-->



#6

Bromomethane

Concen: 4.879 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU036152.D

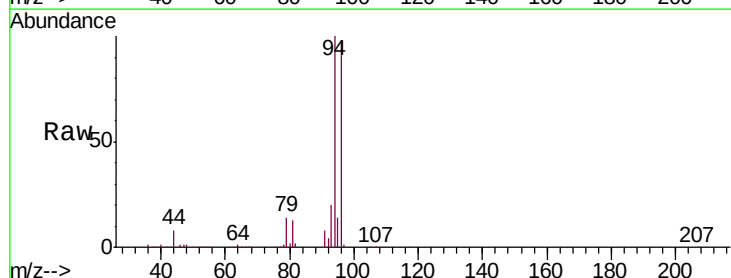
Acq: 12 Dec 2019 15:55

Tgt Ion: 94 Resp: 117494

Ion Ratio Lower Upper

94 100

96 96.7 67.7 125.7



Abundance Ion 94.00 (93.70 to 94.70): VU036152.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU036152.D (-155) (-)

1.87

100000

80000

60000

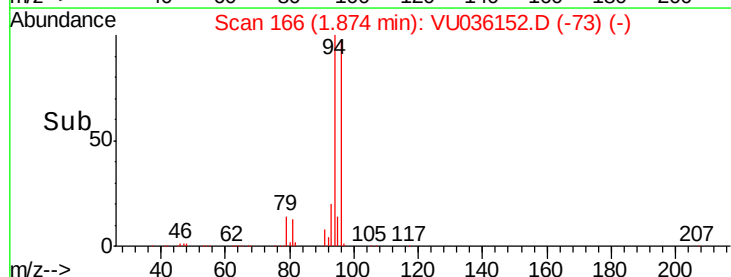
40000

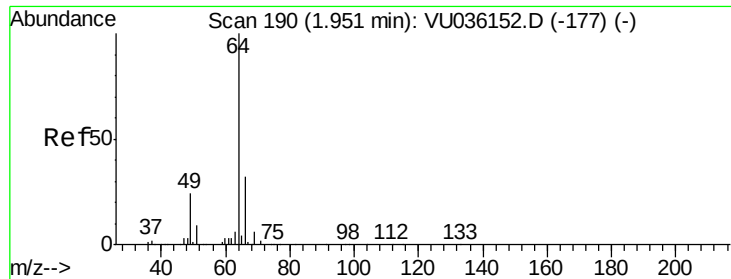
20000

0

1.80 1.85 1.90 1.95

Time-->

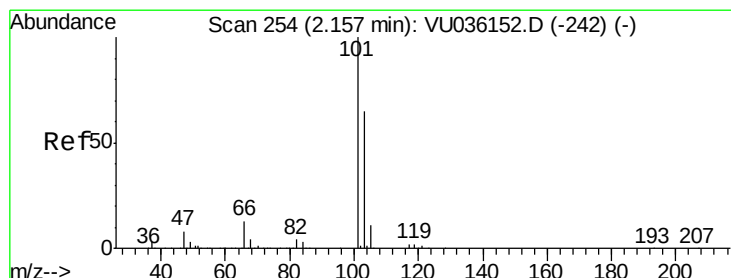
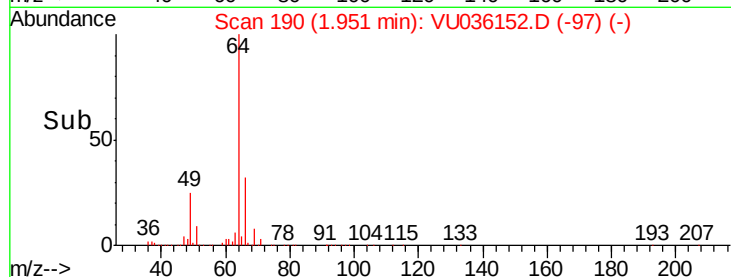
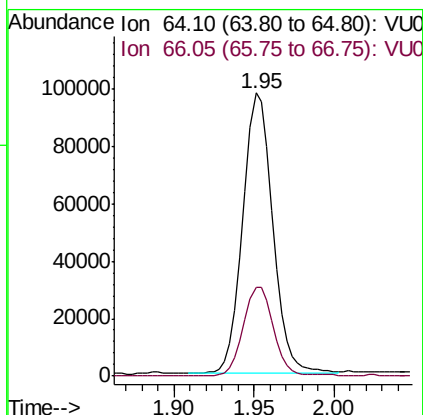
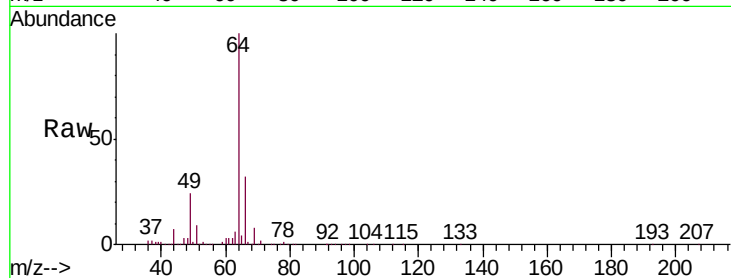




#8
Chloroethane
Concen: 5.369 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU036152.D
Acq: 12 Dec 2019 15:55

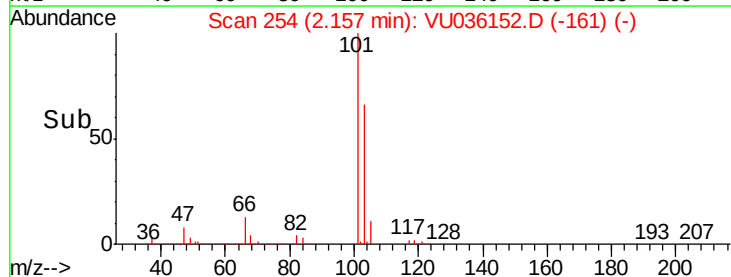
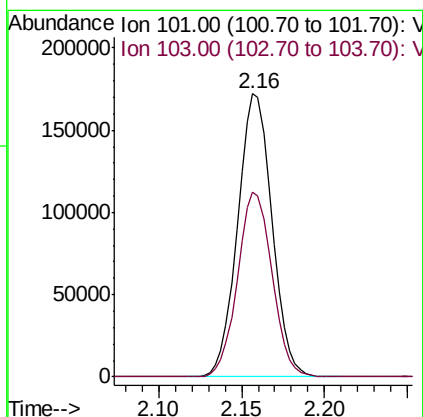
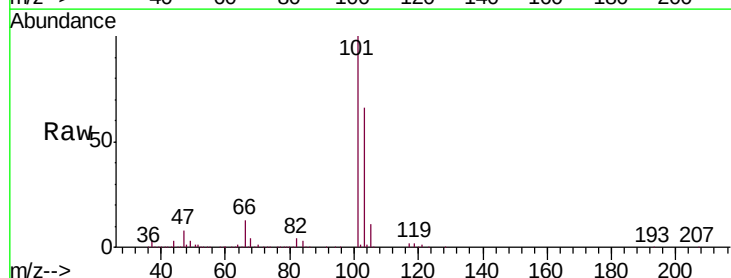
Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

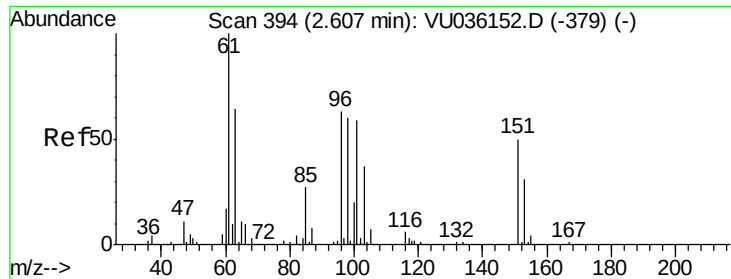
Tgt Ion: 64 Resp: 125130
Ion Ratio Lower Upper
64 100
66 31.5 22.0 41.0



#9
Trichlorofluoromethane
Concen: 4.814 ug/L
RT: 2.16 min Scan# 254
Delta R.T. 0.00 min
Lab File: VU036152.D
Acq: 12 Dec 2019 15:55

Tgt Ion: 101 Resp: 248194
Ion Ratio Lower Upper
101 100
103 65.7 52.6 78.8





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 4.352 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

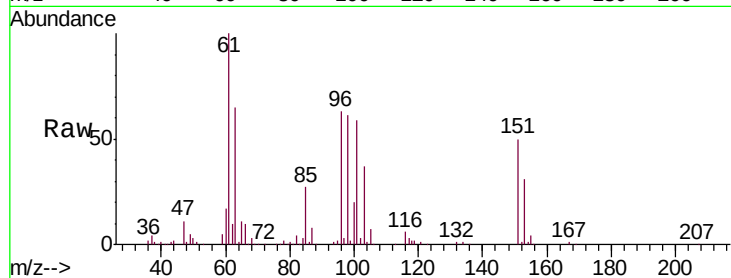
Tgt Ion: 101 Resp: 122921

Ion Ratio Lower Upper

101 100

85 42.8 34.2 51.4

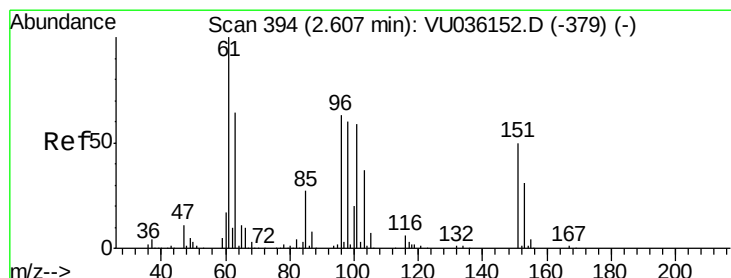
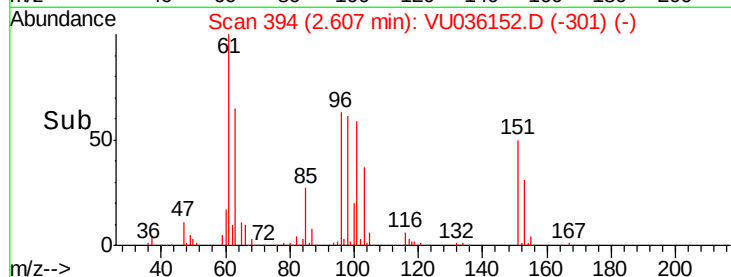
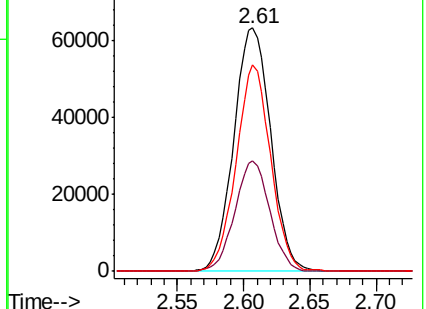
151 79.2 63.4 95.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.409 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

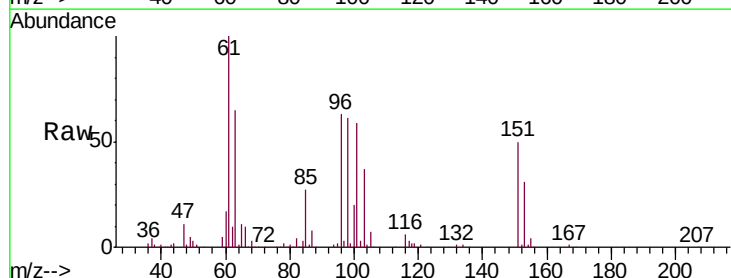
Tgt Ion: 96 Resp: 111356

Ion Ratio Lower Upper

96 100

61 158.0 110.6 205.4

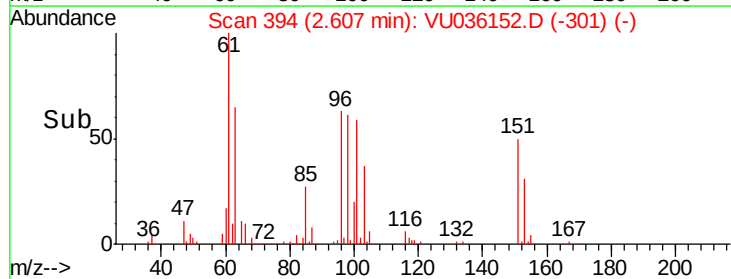
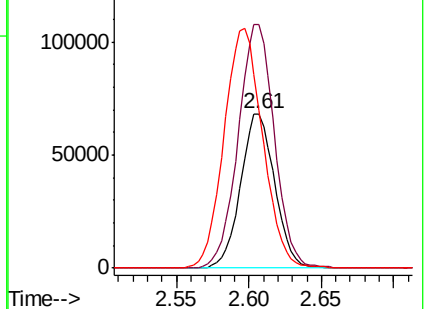
63 102.3 71.6 133.0

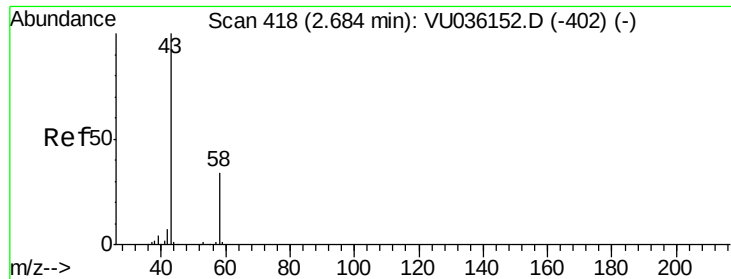


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 34.224 ug/L

RT: 2.68 min Scan# 418

Delta R.T. 0.00 min

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ClientSampleId :

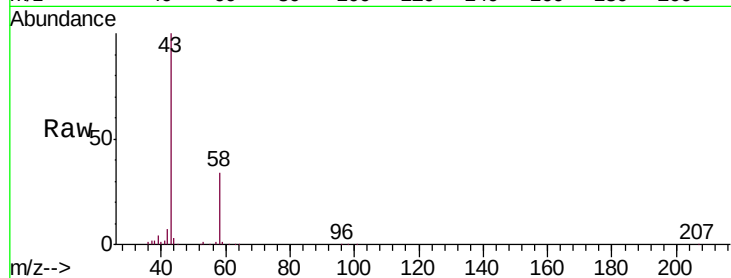
VSTD00502

Tgt Ion: 43 Resp: 191208

Ion Ratio Lower Upper

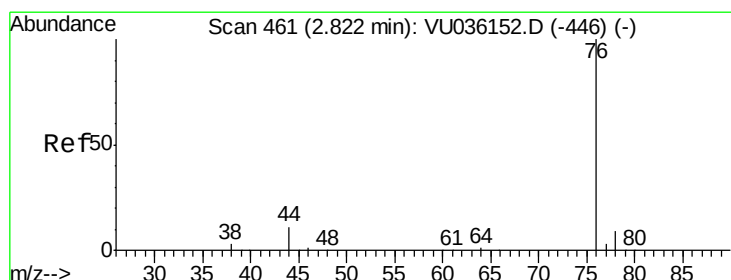
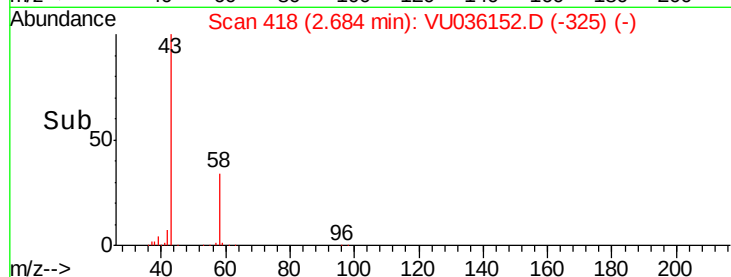
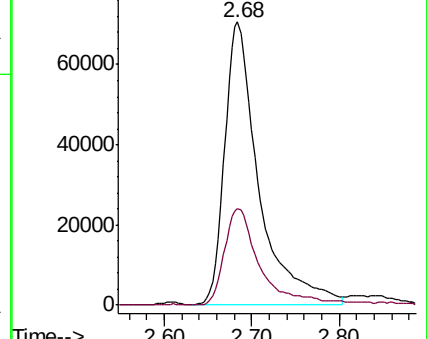
43 100

58 35.0 0.0 70.0



Abundance Ion 43.05 (42.75 to 43.75): VU036152.D (-402) (-)

Ion 58.05 (57.75 to 58.75): VU036152.D (-402) (-)



#14

Carbon disulfide

Concen: 5.021 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036152.D

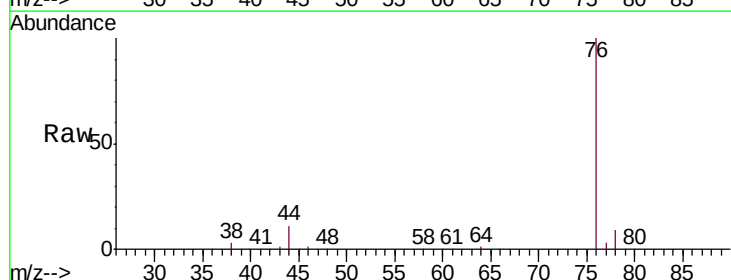
Acq: 12 Dec 2019 15:55

Tgt Ion: 76 Resp: 374582

Ion Ratio Lower Upper

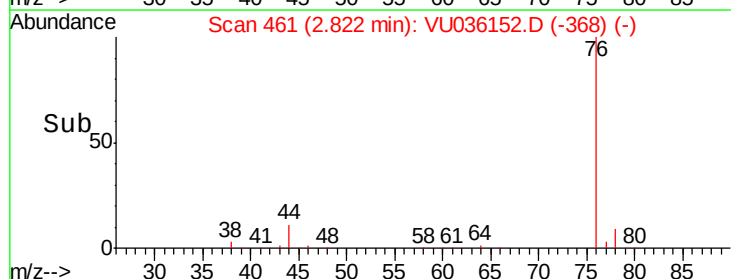
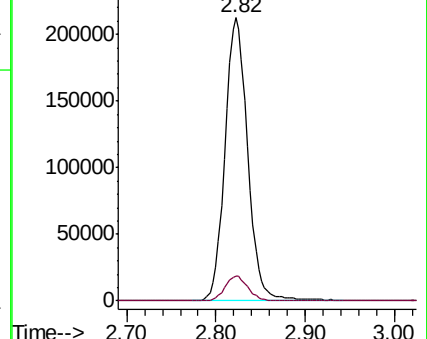
76 100

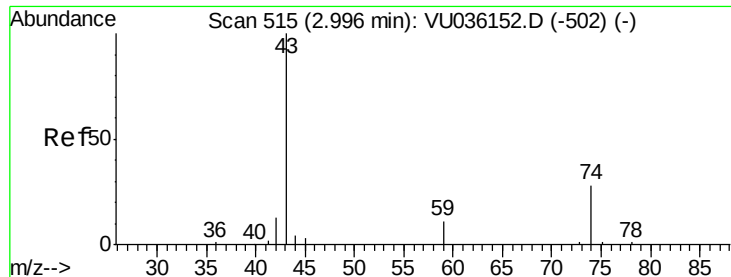
78 9.0 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VU036152.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU036152.D (-446) (-)

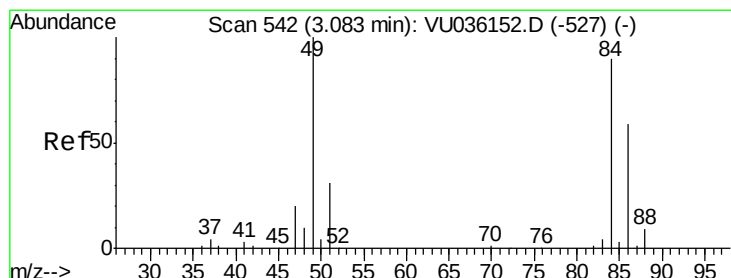
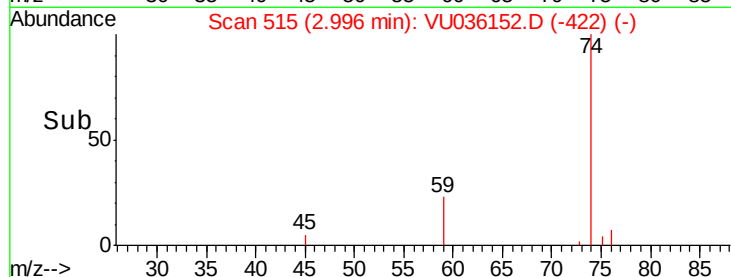
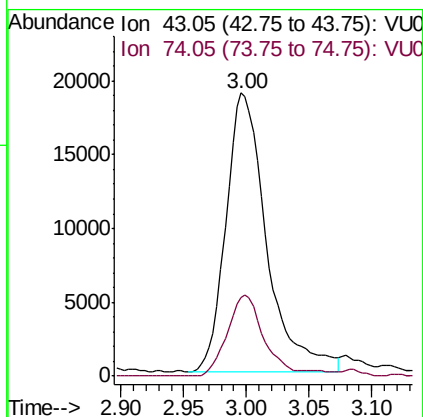
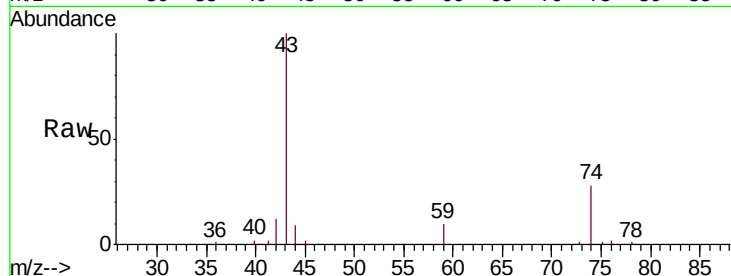




#15
Methyl Acetate
Concen: 4.921 ug/L
RT: 3.00 min Scan# 515
Delta R.T. 0.00 min
Lab File: VU036152.D
Acq: 12 Dec 2019 15:55

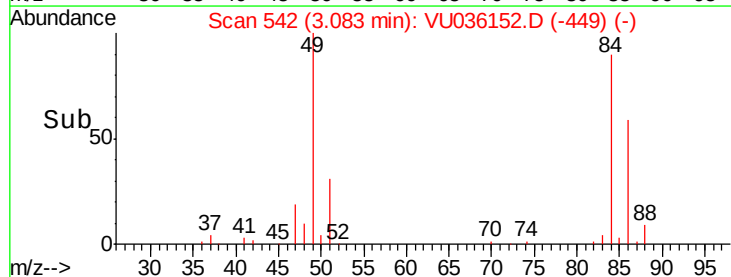
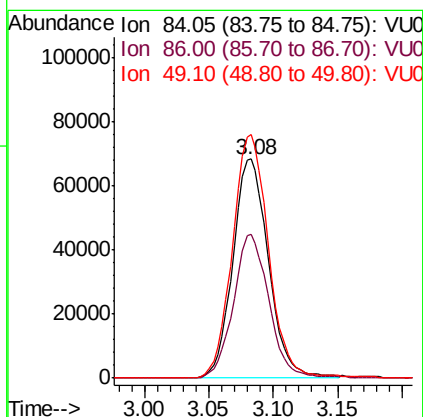
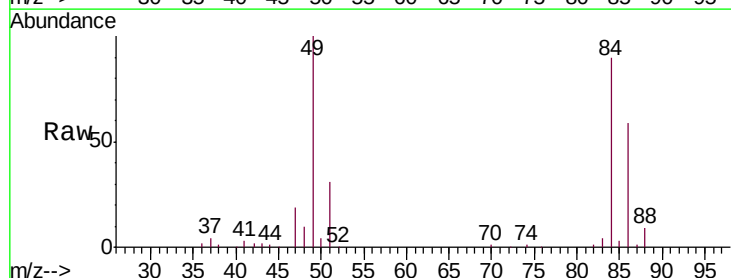
Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

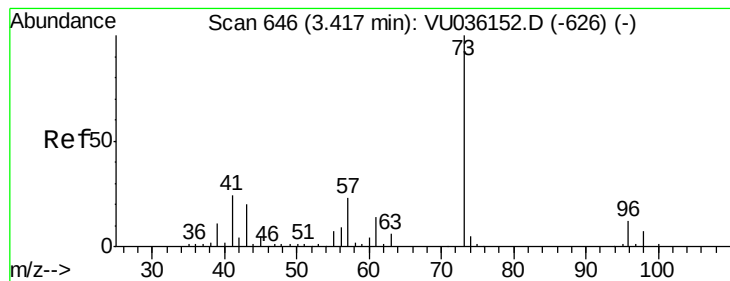
Tgt Ion: 43 Resp: 42670
Ion Ratio Lower Upper
43 100
74 25.7 20.6 30.8



#16
Methylene chloride
Concen: 4.322 ug/L
RT: 3.08 min Scan# 542
Delta R.T. 0.00 min
Lab File: VU036152.D
Acq: 12 Dec 2019 15:55

Tgt Ion: 84 Resp: 131560
Ion Ratio Lower Upper
84 100
86 65.8 46.1 85.5
49 111.0 77.7 144.3





#17

Methyl tert-butyl Ether

Concen: 5.113 ug/L

RT: 3.42 min Scan# 646

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

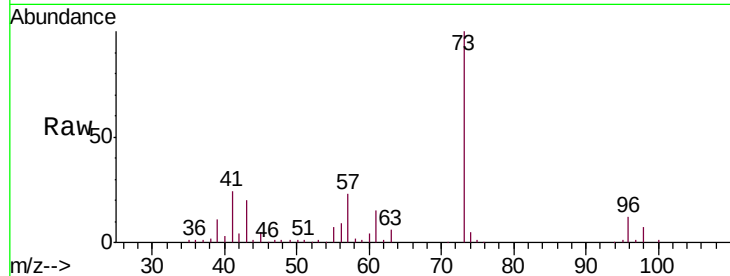
Tgt Ion: 73 Resp: 231978

Ion Ratio Lower Upper

73 100

43 19.1 15.3 22.9

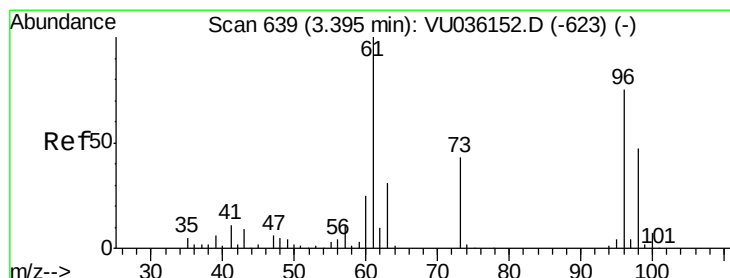
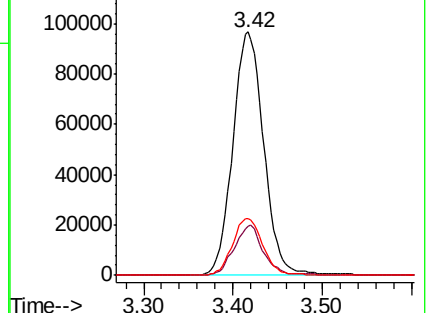
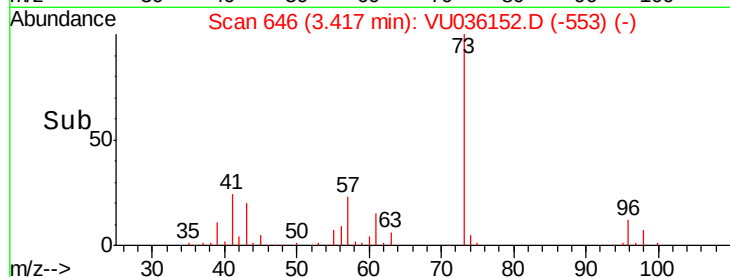
57 22.9 18.3 27.5



Abundance Ion 73.10 (72.80 to 73.80): VU036152.D (-626) (-)

Ion 43.05 (42.75 to 43.75): VU036152.D (-626) (-)

Ion 57.10 (56.80 to 57.80): VU036152.D (-626) (-)



#18

trans-1,2-Dichloroethene

Concen: 5.063 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

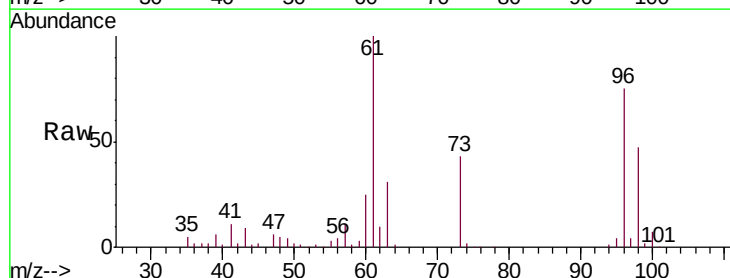
Tgt Ion: 96 Resp: 113631

Ion Ratio Lower Upper

96 100

61 133.2 93.2 173.2

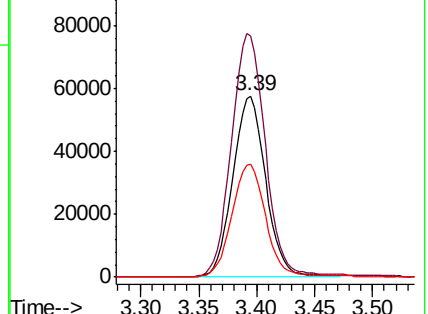
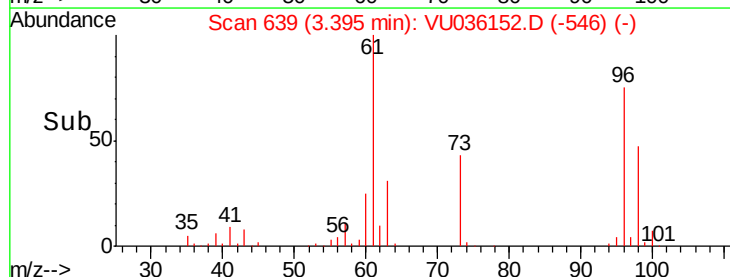
98 62.2 43.5 80.9

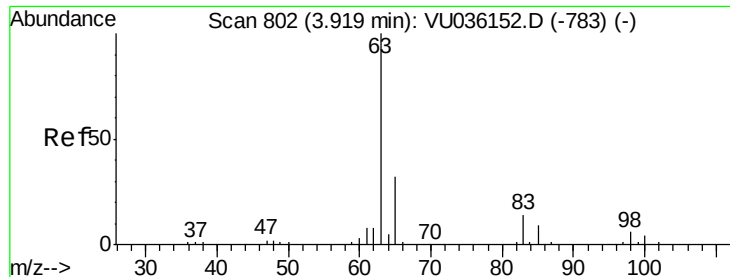


Abundance Ion 96.00 (95.70 to 96.70): VU036152.D (-623) (-)

Ion 61.05 (60.75 to 61.75): VU036152.D (-623) (-)

Ion 97.95 (97.65 to 98.65): VU036152.D (-623) (-)

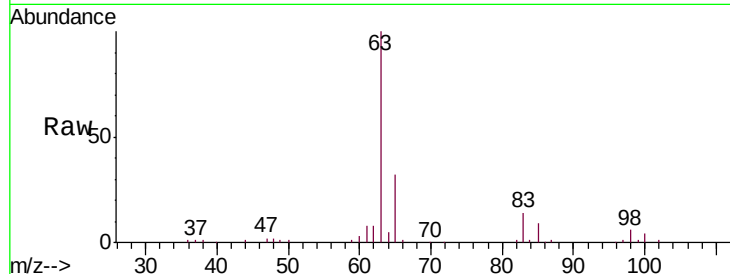




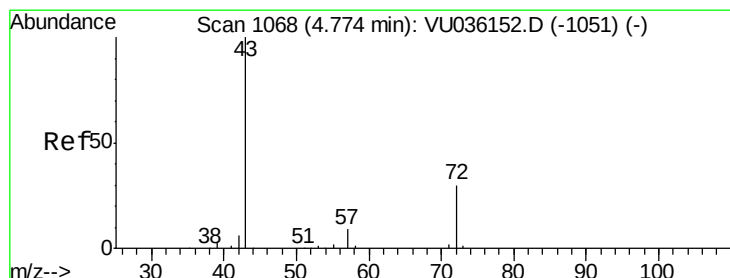
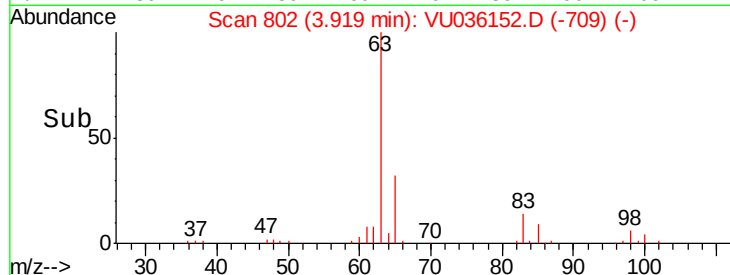
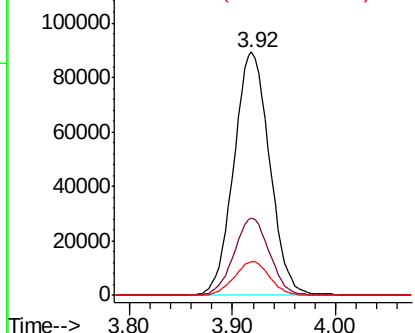
#19
 1,1-Dichloroethane
 Concen: 5.314 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: VU036152.D
 Acq: 12 Dec 2019 15:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

Tgt Ion: 63 Resp: 215475
 Ion Ratio Lower Upper
 63 100
 65 31.7 22.2 41.2
 83 14.0 9.8 18.2

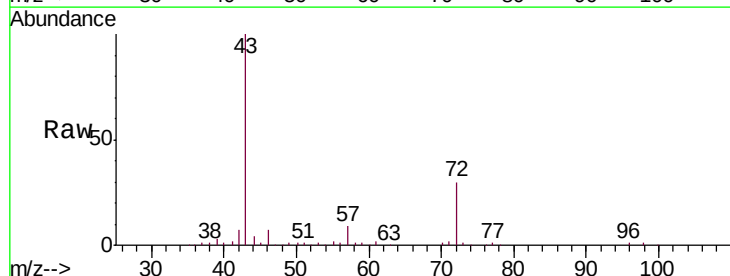


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

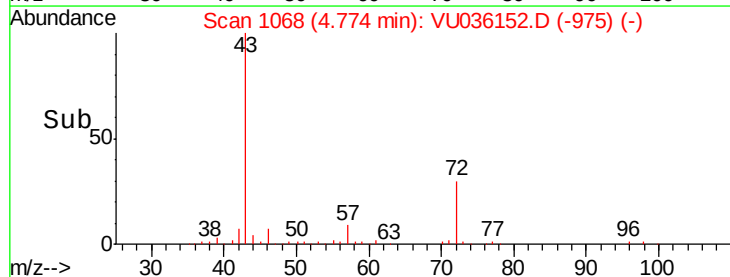
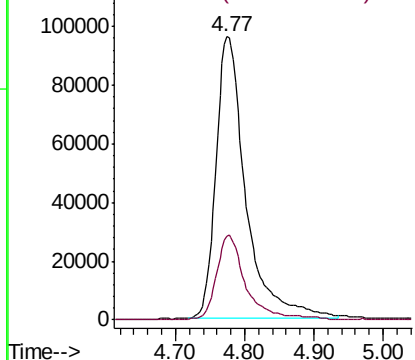


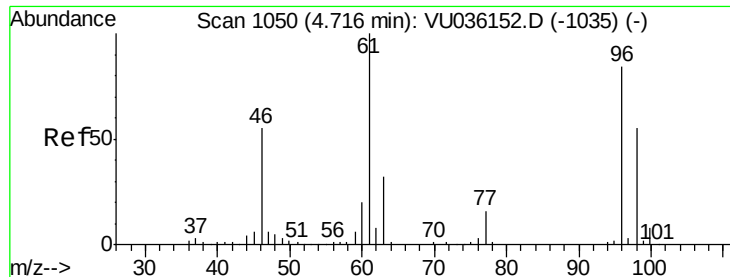
#21
 2-Butanone
 Concen: 49.183 ug/L
 RT: 4.77 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VU036152.D
 Acq: 12 Dec 2019 15:55

Tgt Ion: 43 Resp: 287897
 Ion Ratio Lower Upper
 43 100
 72 28.8 14.4 43.2



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0

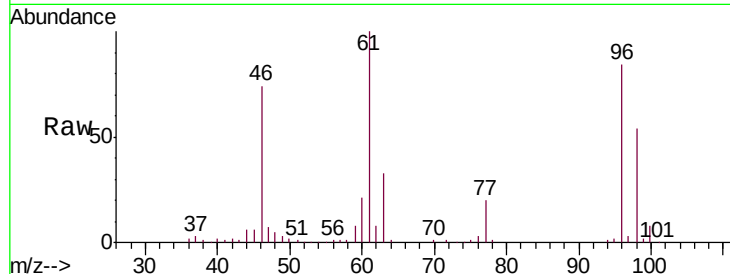




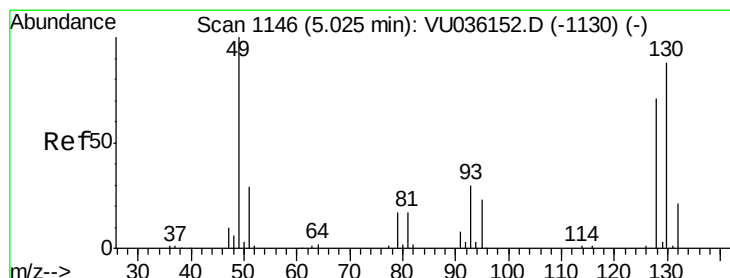
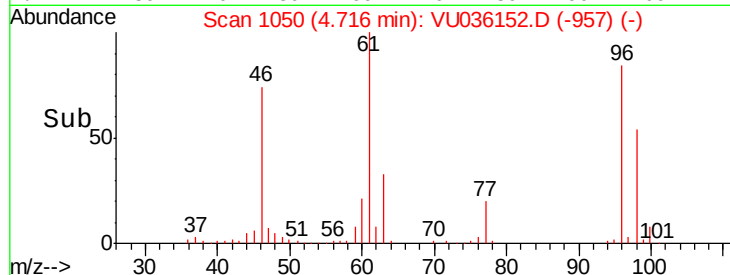
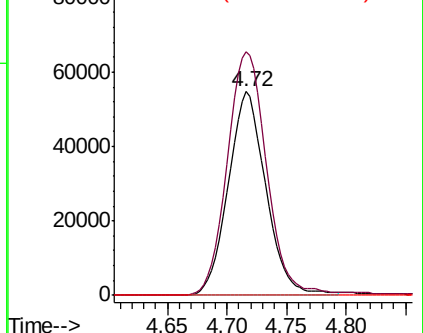
#22
 cis-1,2-Dichloroethene
 Concen: 5.135 ug/L
 RT: 4.72 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VU036152.D
 Acq: 12 Dec 2019 15:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

Tgt Ion: 96 Resp: 120275
 Ion Ratio Lower Upper
 96 100
 61 119.7 83.8 155.6
 68 0.0 0.0 0.0

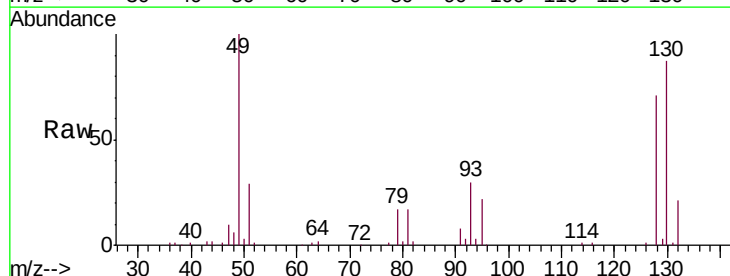


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

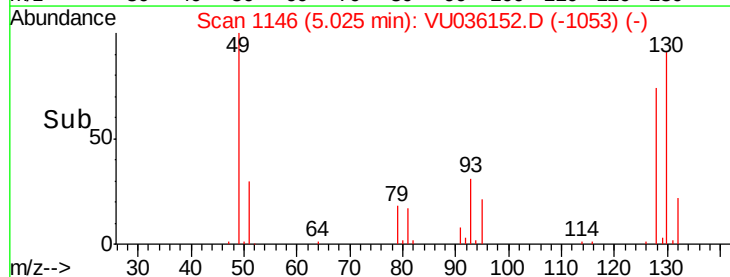
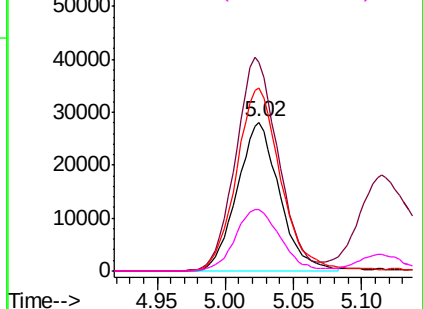


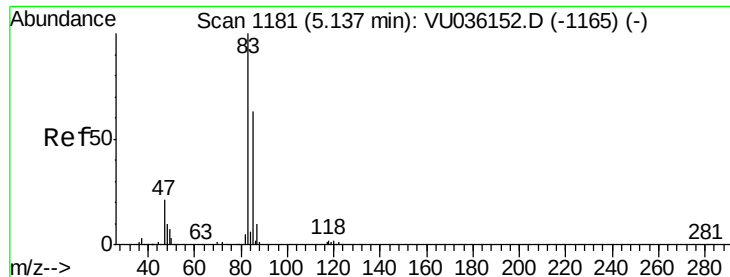
#23
 Bromochloromethane
 Concen: 5.014 ug/L
 RT: 5.02 min Scan# 1146
 Delta R.T. 0.00 min
 Lab File: VU036152.D
 Acq: 12 Dec 2019 15:55

Tgt Ion: 128 Resp: 60478
 Ion Ratio Lower Upper
 128 100
 49 140.5 98.3 182.7
 130 122.8 86.0 159.6
 51 41.2 33.0 49.4



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VU0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VU0

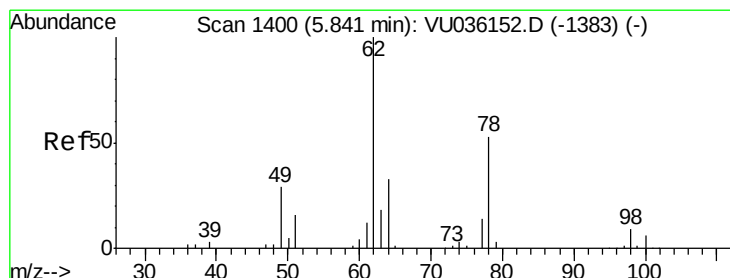
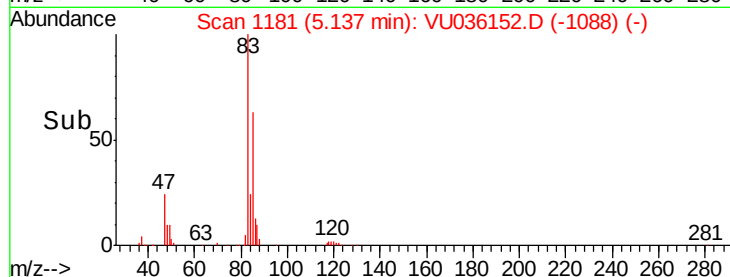
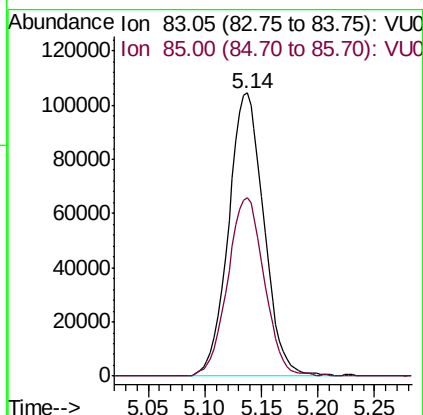
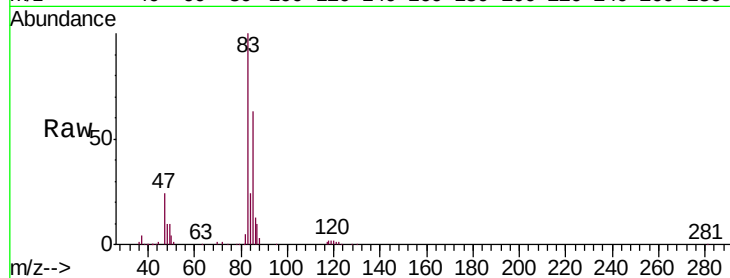




#25
Chloroform
Concen: 5.089 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VU036152.D
Acq: 12 Dec 2019 15:55

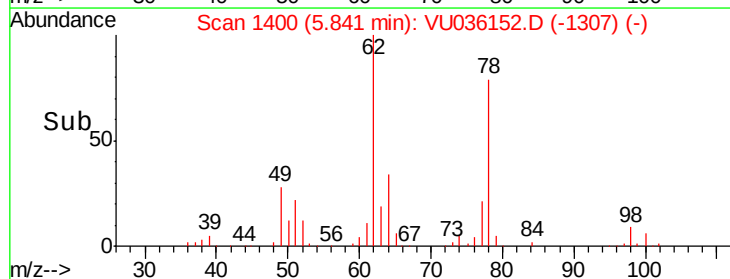
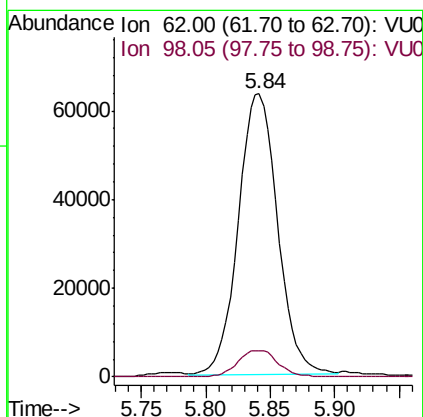
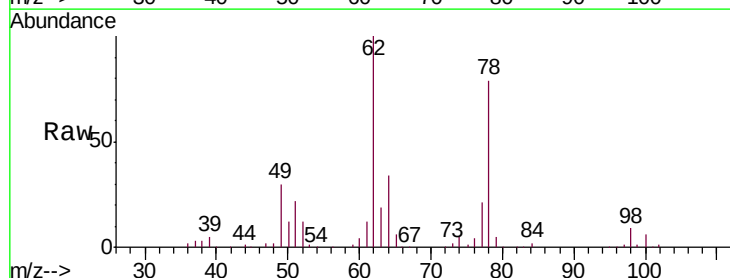
Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

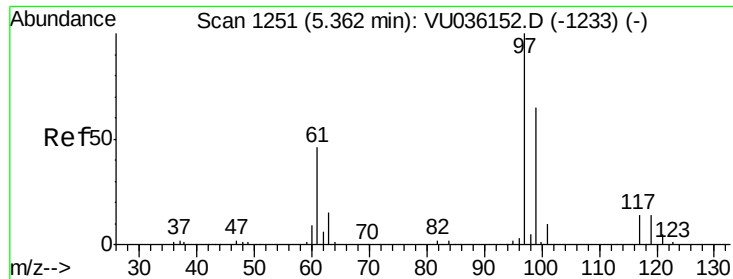
Tgt Ion: 83 Resp: 227241
Ion Ratio Lower Upper
83 100
85 63.1 44.2 82.0



#27
1,2-Dichloroethane
Concen: 5.101 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. 0.00 min
Lab File: VU036152.D
Acq: 12 Dec 2019 15:55

Tgt Ion: 62 Resp: 134941
Ion Ratio Lower Upper
62 100
98 9.1 7.3 10.9

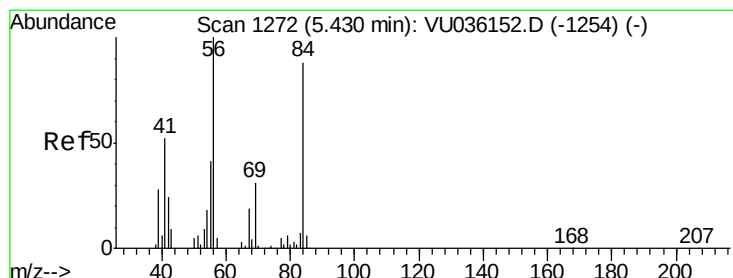
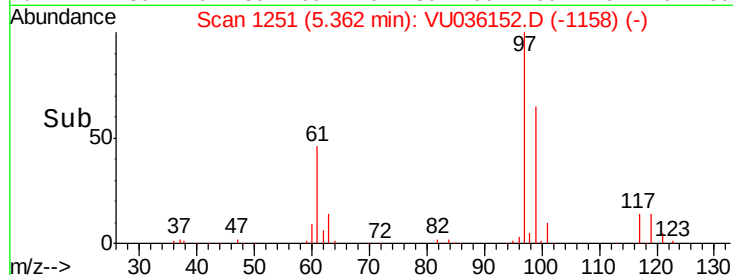
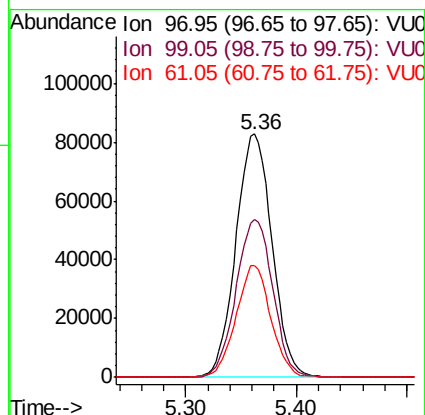
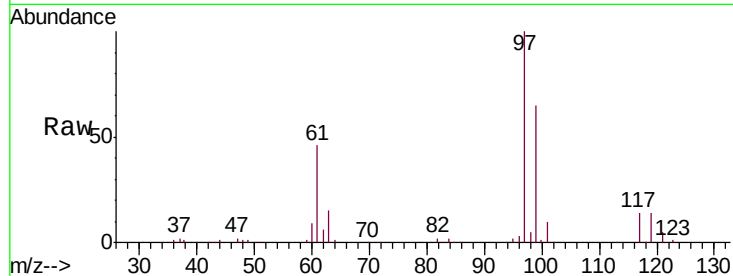




#29
 1,1,1-Trichloroethane
 Concen: 5.261 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU036152.D
 Acq: 12 Dec 2019 15:55

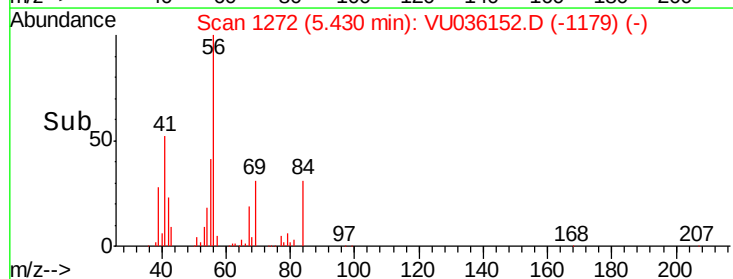
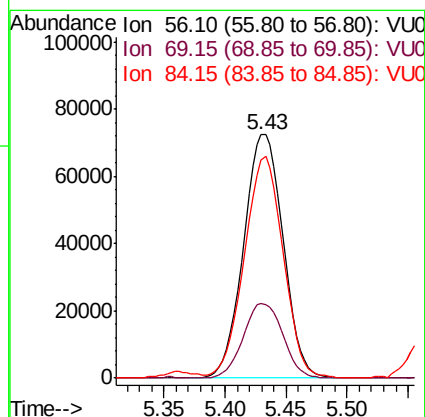
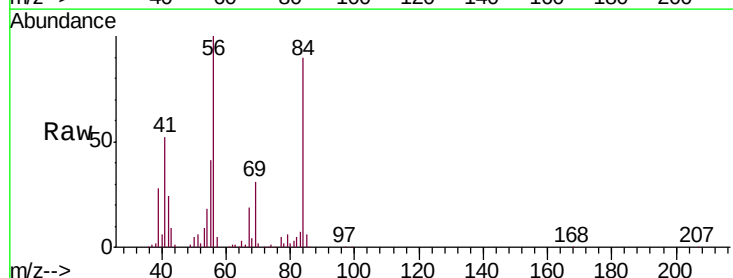
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

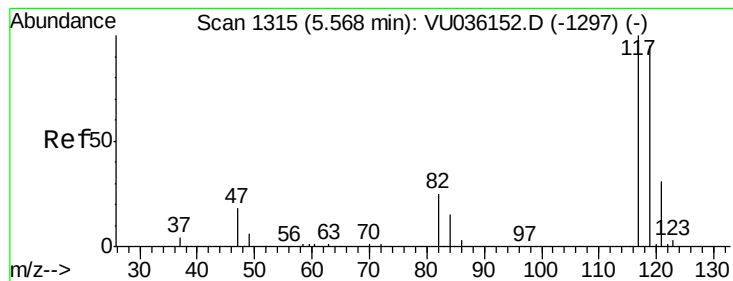
Tgt Ion: 97 Resp: 188087
 Ion Ratio Lower Upper
 97 100
 99 65.8 52.6 79.0
 61 44.3 35.4 53.2



#30
 Cyclohexane
 Concen: 5.676 ug/L
 RT: 5.43 min Scan# 1272
 Delta R.T. 0.00 min
 Lab File: VU036152.D
 Acq: 12 Dec 2019 15:55

Tgt Ion: 56 Resp: 162205
 Ion Ratio Lower Upper
 56 100
 69 30.9 24.7 37.1
 84 89.3 71.4 107.2





#31

Carbon tetrachloride

Concen: 5.357 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

Instrument :

MSVOA_U

ClientSampleId :

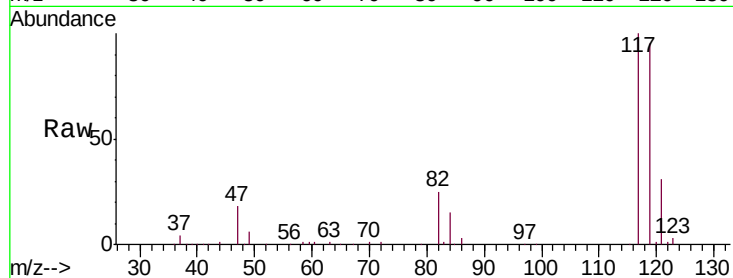
VSTD00502

Tgt Ion:117 Resp: 173373

Ion Ratio Lower Upper

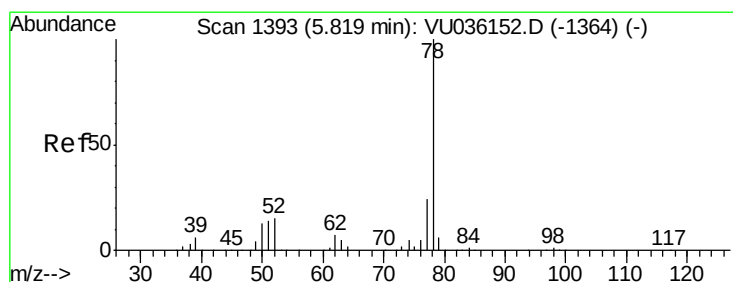
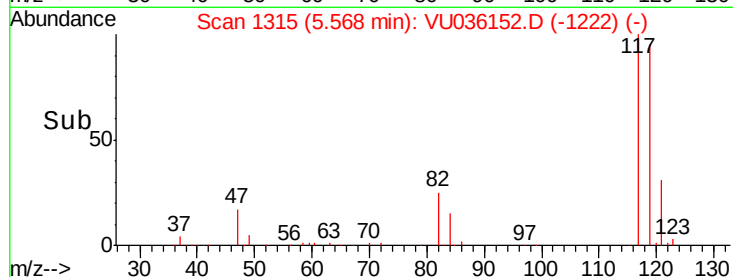
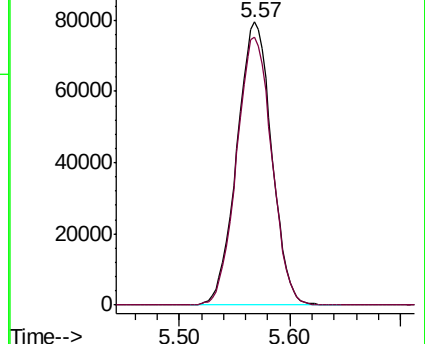
117 100

119 95.7 76.6 114.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.636 ug/L

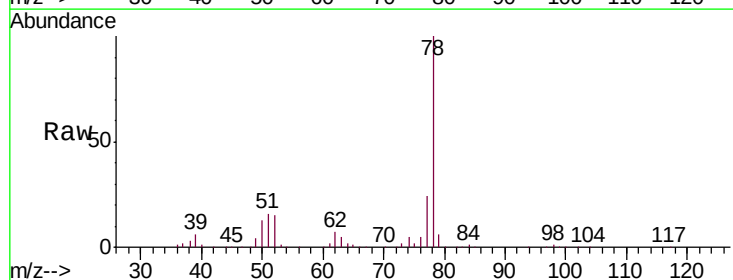
RT: 5.82 min Scan# 1393

Delta R.T. 0.00 min

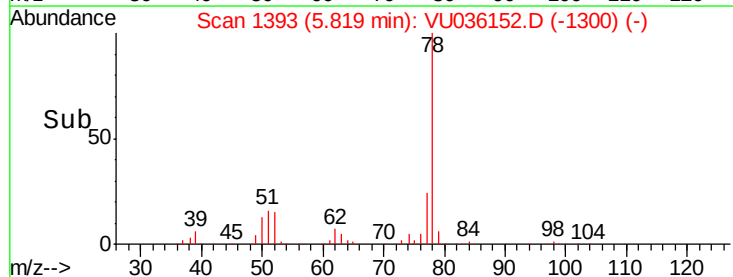
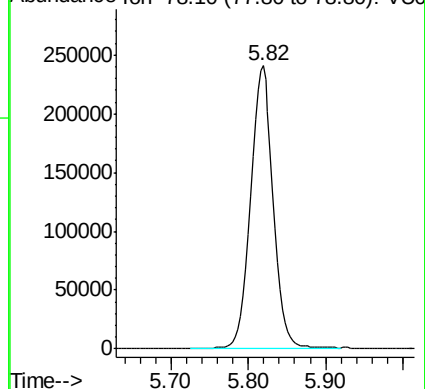
Lab File: VU036152.D

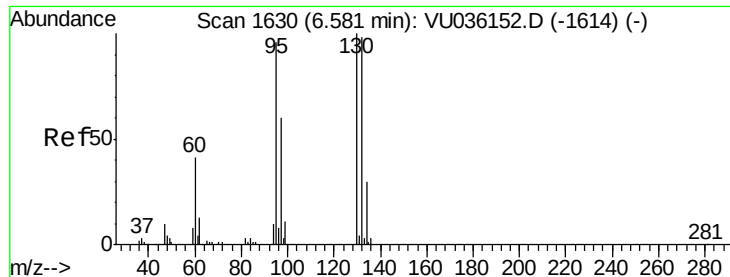
Acq: 12 Dec 2019 15:55

Tgt Ion: 78 Resp: 493955



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 5.338 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

Tgt Ion: 95 Resp: 123509

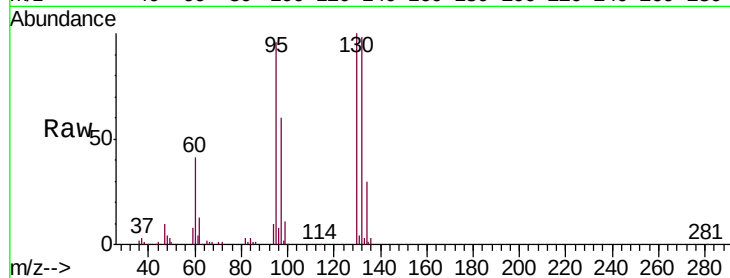
Ion Ratio Lower Upper

95 100

97 62.4 43.7 81.1

132 102.5 71.7 133.3

130 104.4 73.1 135.7



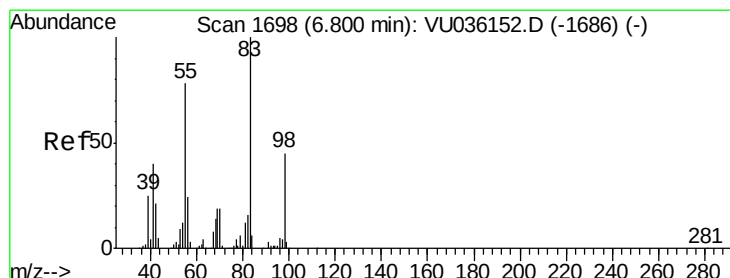
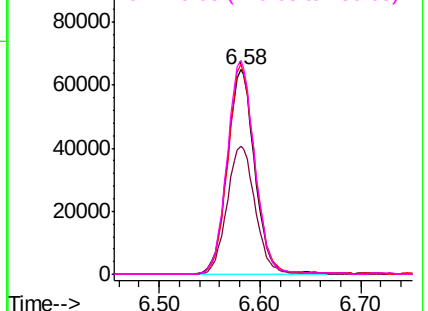
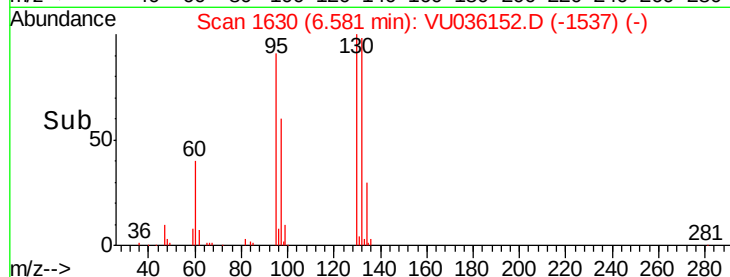
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 5.673 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

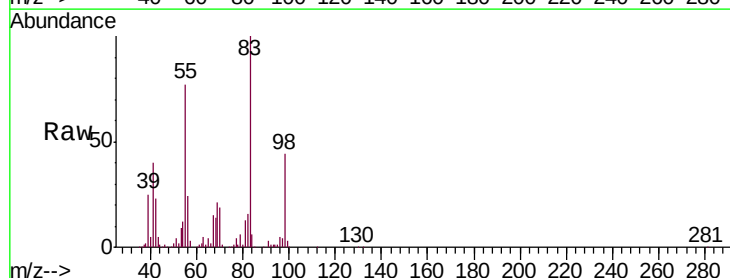
Tgt Ion: 83 Resp: 178083

Ion Ratio Lower Upper

83 100

55 77.4 61.9 92.9

98 44.7 35.8 53.6

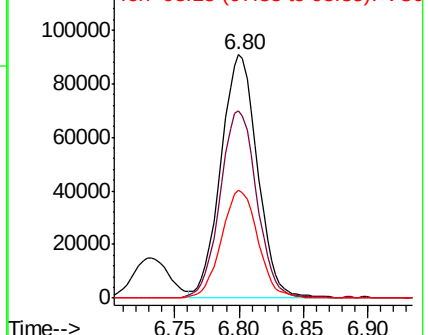
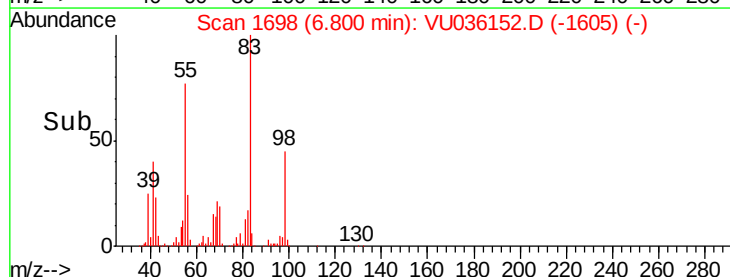


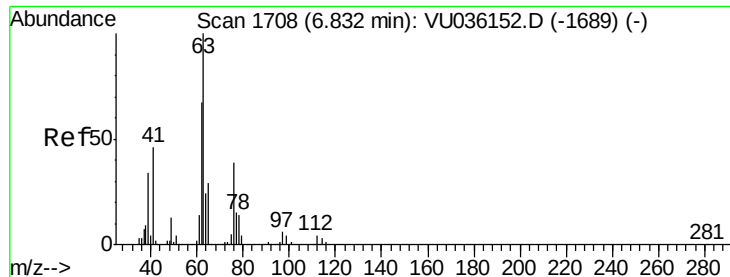
Abundance

Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

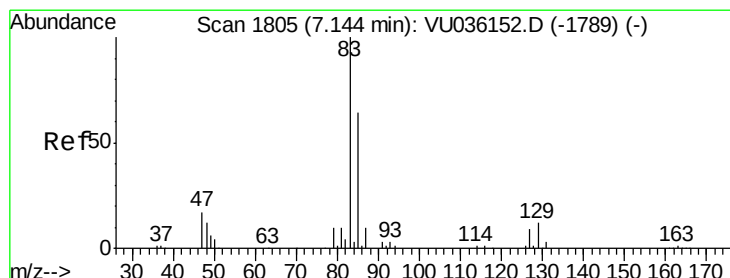
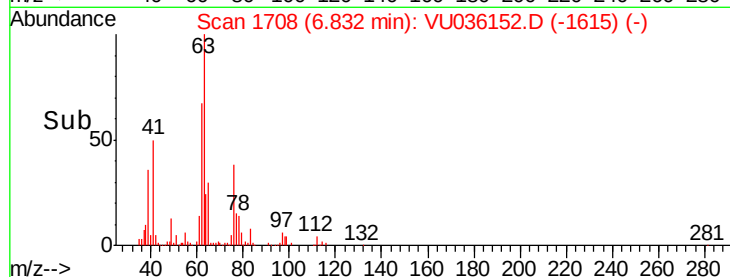
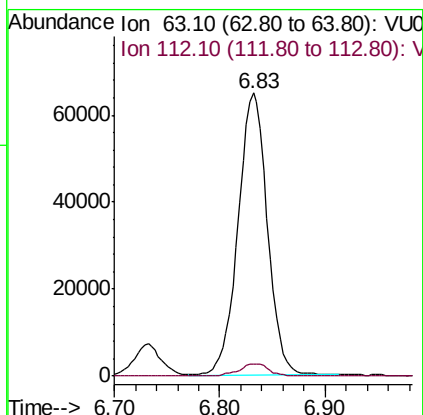
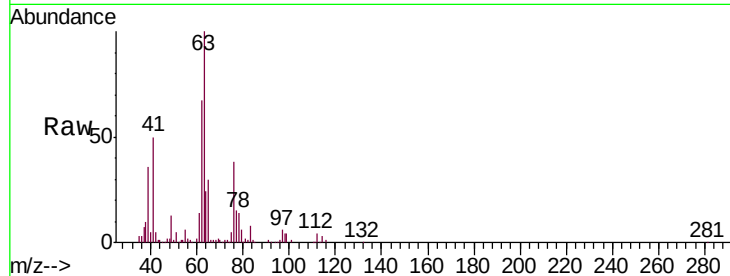




#37
 1,2-Dichloropropane
 Concen: 5.680 ug/L
 RT: 6.83 min Scan# 1708
 Delta R.T. 0.00 min
 Lab File: VU036152.D
 Acq: 12 Dec 2019 15:55

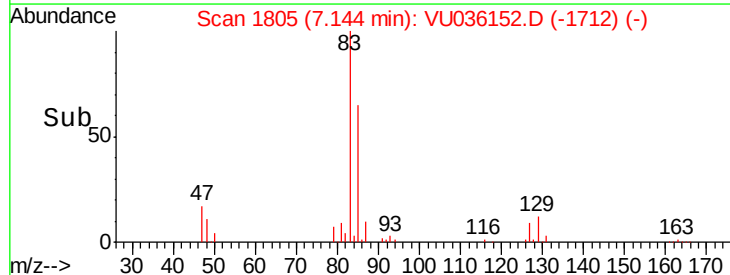
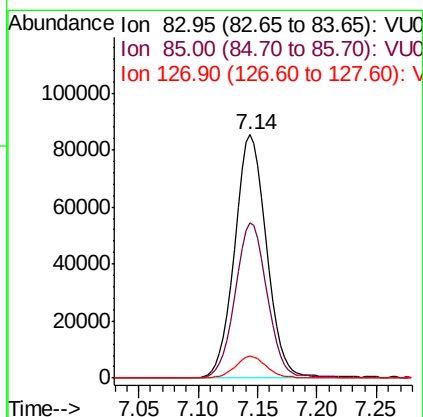
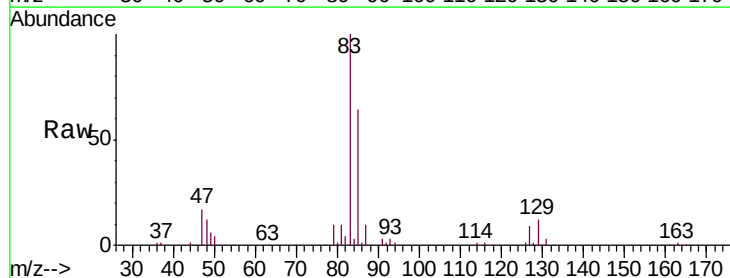
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

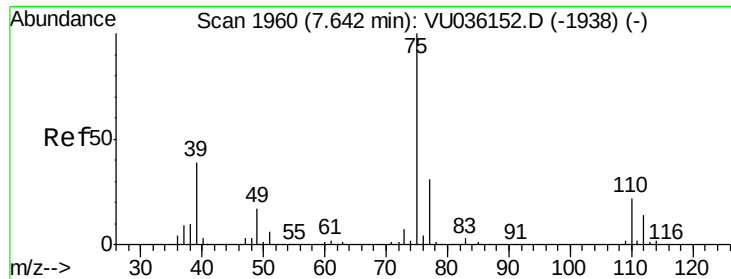
Tgt Ion: 63 Resp: 125550
 Ion Ratio Lower Upper
 63 100
 112 4.5 3.6 5.4



#38
 Bromodichloromethane
 Concen: 5.415 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VU036152.D
 Acq: 12 Dec 2019 15:55

Tgt Ion: 83 Resp: 159153
 Ion Ratio Lower Upper
 83 100
 85 63.9 44.7 83.1
 127 9.2 7.4 11.0

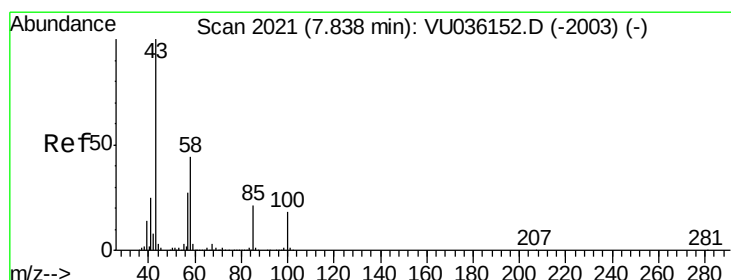
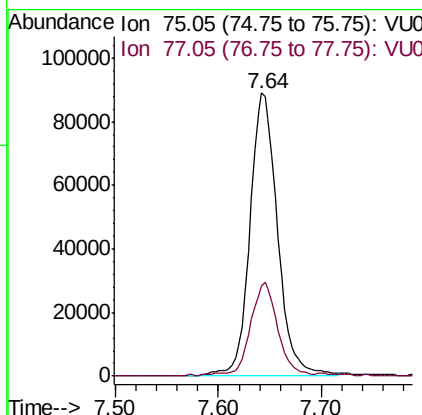
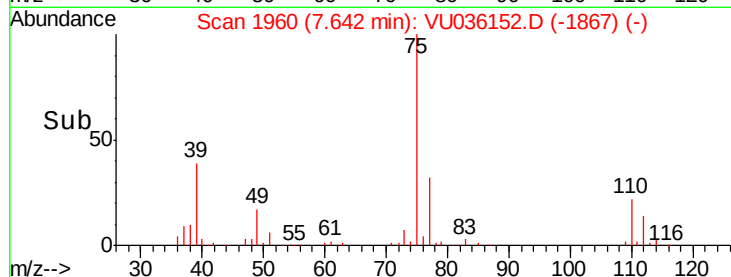
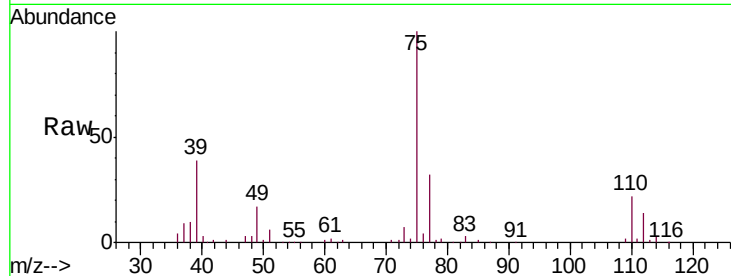




#39
 cis-1,3-Dichloropropene
 Concen: 5.552 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VU036152.D
 Acq: 12 Dec 2019 15:55

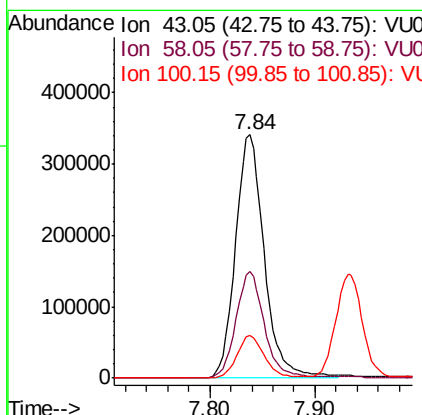
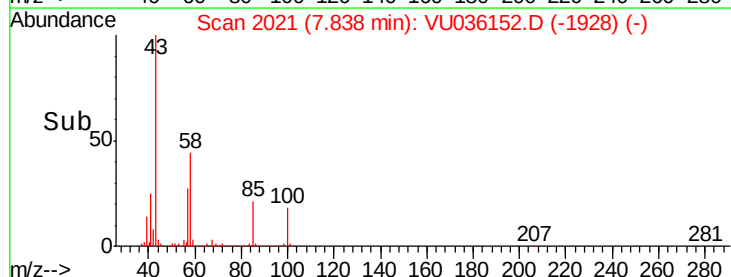
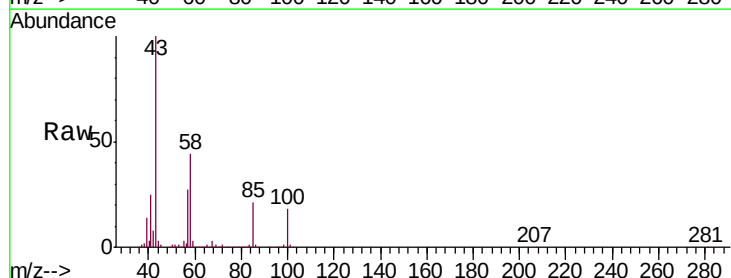
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

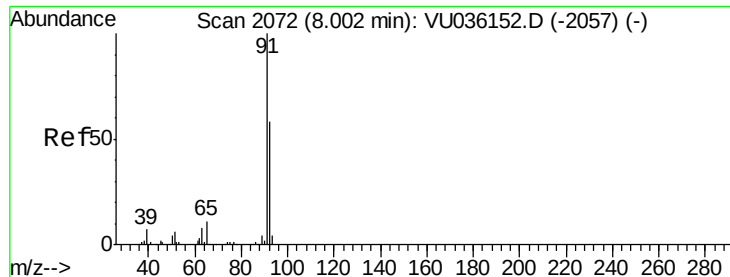
Tgt Ion: 75 Resp: 165789
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 55.874 ug/L
 RT: 7.84 min Scan# 2021
 Delta R.T. 0.00 min
 Lab File: VU036152.D
 Acq: 12 Dec 2019 15:55

Tgt Ion: 43 Resp: 645189
 Ion Ratio Lower Upper
 43 100
 58 43.0 34.4 51.6
 100 16.8 13.4 20.2





#42

Toluene

Concen: 5.775 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

Instrument :

MSVOA_U

ClientSampleId :

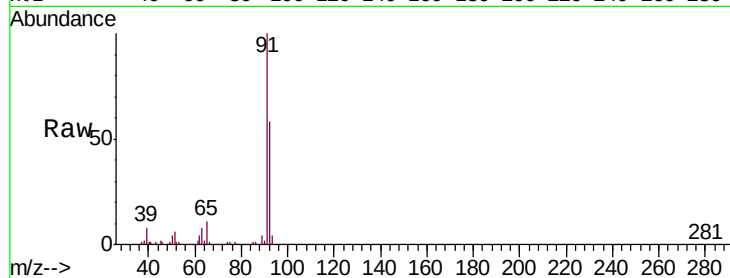
VSTD00502

Tgt Ion: 91 Resp: 542251

Ion Ratio Lower Upper

91 100

92 58.2 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VU036152.D (-2057) (-)

Ion 92.15 (91.85 to 92.85): VU036152.D (-2057) (-)

8.00

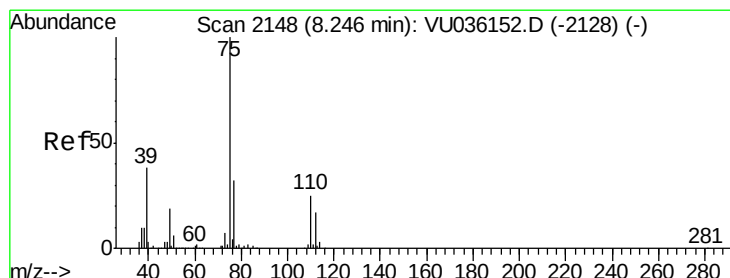
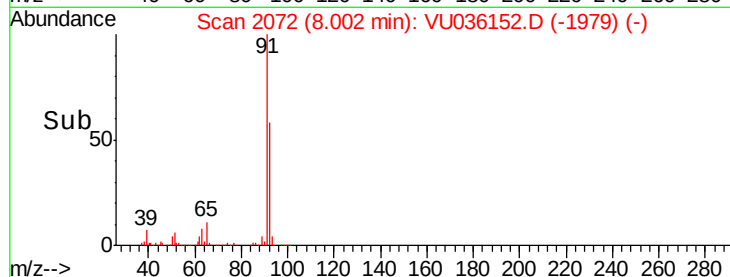
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.510 ug/L

RT: 8.25 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VU036152.D

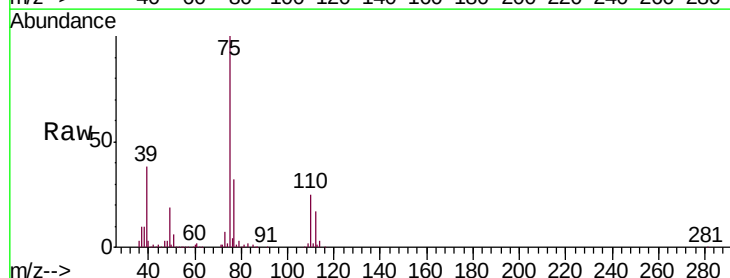
Acq: 12 Dec 2019 15:55

Tgt Ion: 75 Resp: 142265

Ion Ratio Lower Upper

75 100

77 32.3 22.6 42.0



Abundance Ion 75.05 (74.75 to 75.75): VU036152.D (-2128) (-)

Ion 77.05 (76.75 to 77.75): VU036152.D (-2128) (-)

8.25

80000

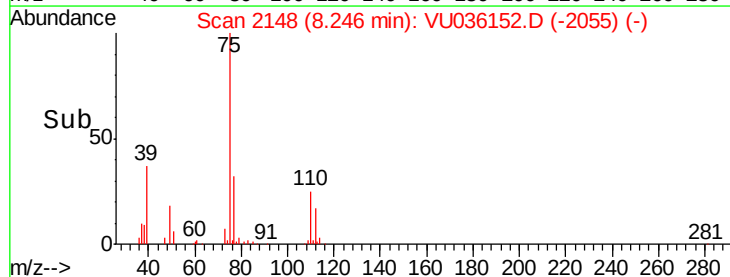
60000

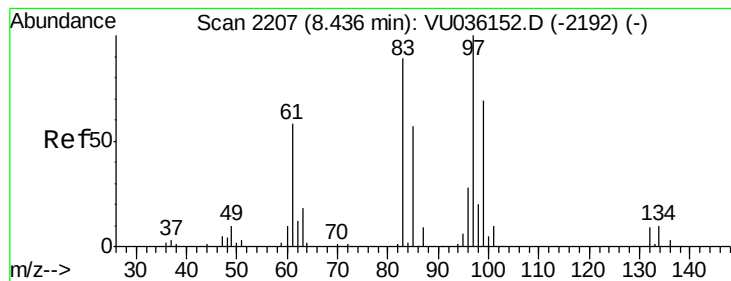
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 5.363 ug/L

RT: 8.44 min Scan# 2207

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

Tgt Ion: 97 Resp: 92339

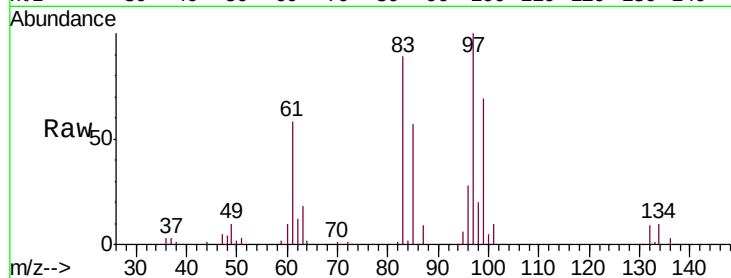
Ion Ratio Lower Upper

97 100

99 69.2 48.4 90.0

83 88.8 62.2 115.4

85 57.3 40.1 74.5

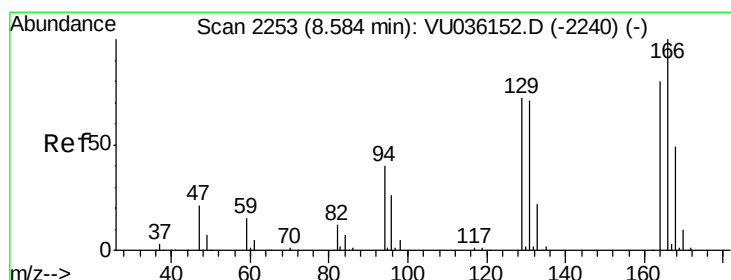
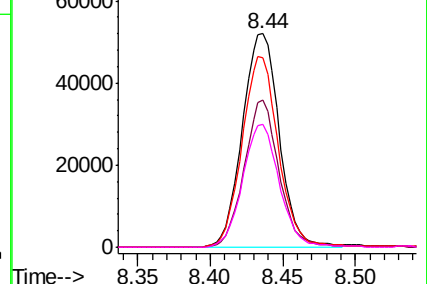
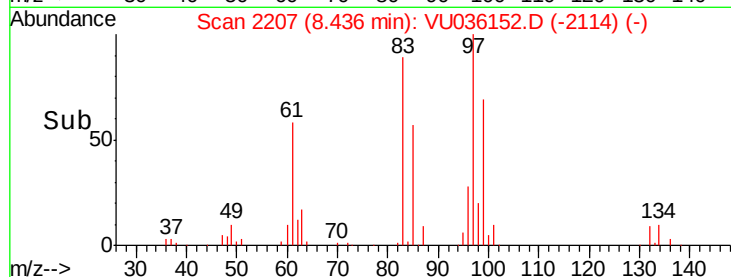


Abundance Ion 96.95 (96.65 to 97.65): VU036152.D (-2192) (-)

Ion 99.05 (98.75 to 99.75): VU036152.D (-2192) (-)

Ion 82.95 (82.65 to 83.65): VU036152.D (-2192) (-)

Ion 85.00 (84.70 to 85.70): VU036152.D (-2192) (-)



#47

Tetrachloroethene

Concen: 5.087 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

Tgt Ion: 164 Resp: 110292

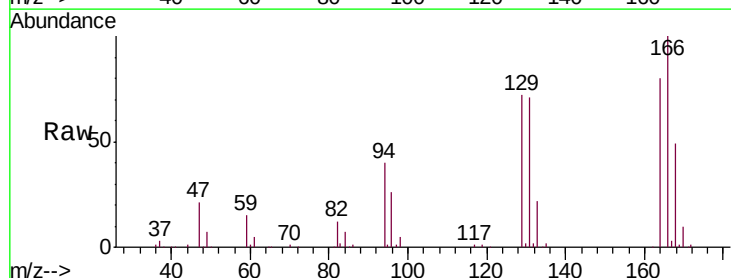
Ion Ratio Lower Upper

164 100

129 90.2 63.1 117.3

131 87.7 61.4 114.0

166 124.4 87.1 161.7

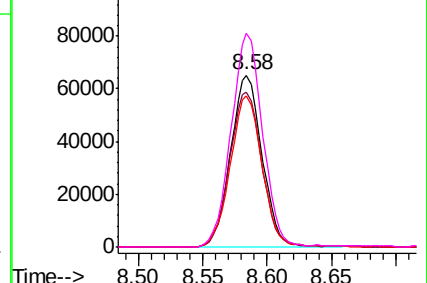
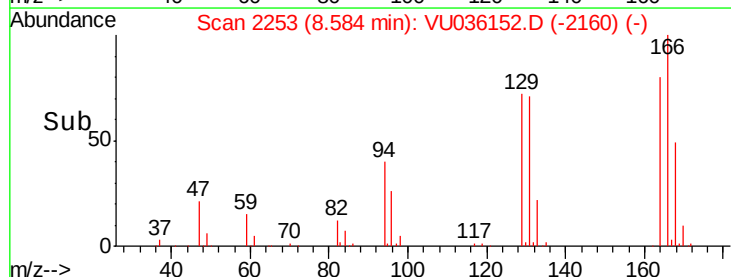


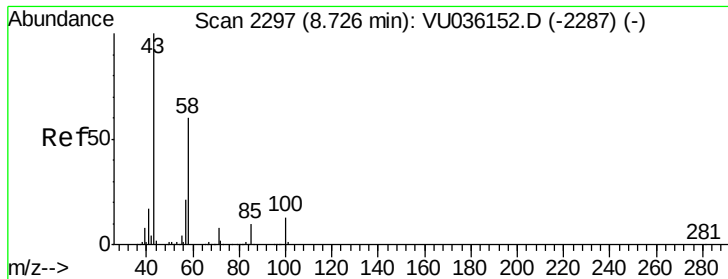
Abundance Ion 163.90 (163.60 to 164.60): VU036152.D (-2240) (-)

Ion 128.95 (128.65 to 129.65): VU036152.D (-2240) (-)

Ion 130.95 (130.65 to 131.65): VU036152.D (-2240) (-)

Ion 165.90 (165.60 to 166.60): VU036152.D (-2240) (-)

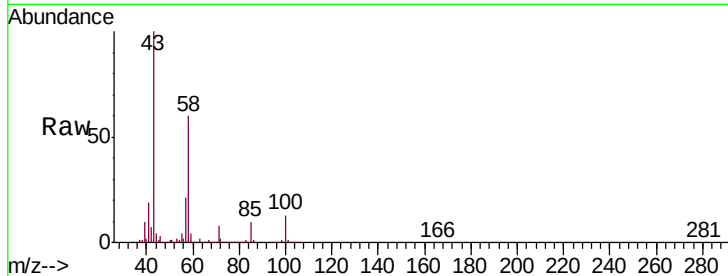




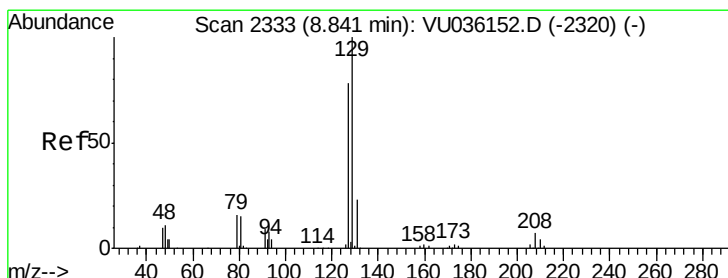
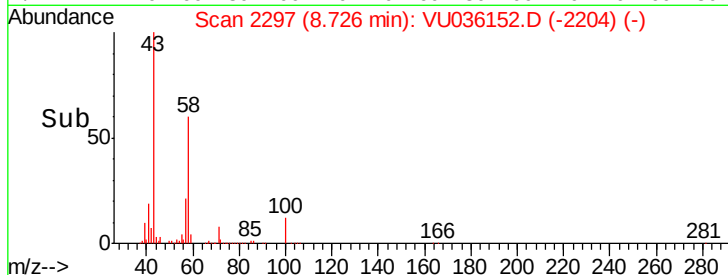
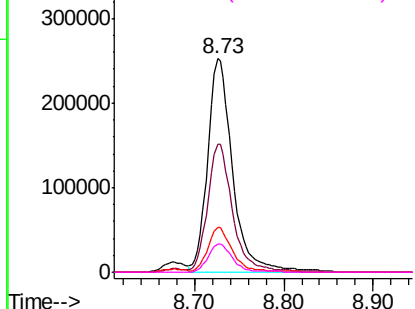
#48
2-Hexanone
Concen: 60.877 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU036152.D
Acq: 12 Dec 2019 15:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

Tgt Ion:	43	Resp:	491187
Ion	Ratio	Lower	Upper
43	100		
58	60.7	48.6	72.8
57	20.9	16.7	25.1
100	13.2	10.6	15.8

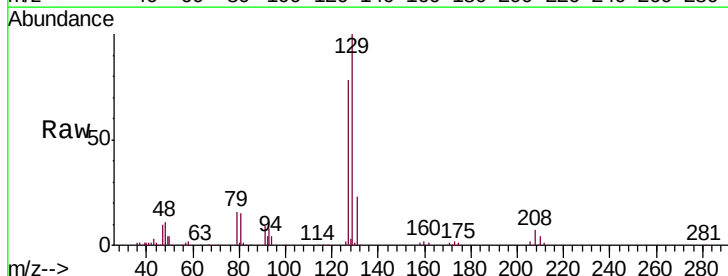


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

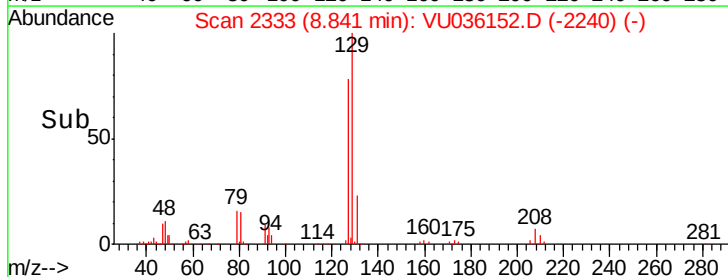
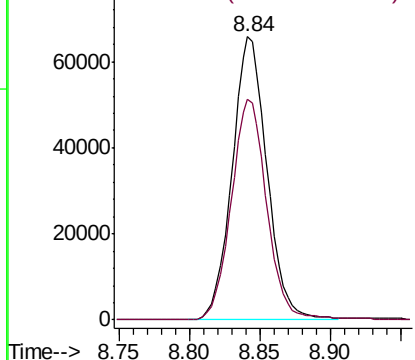


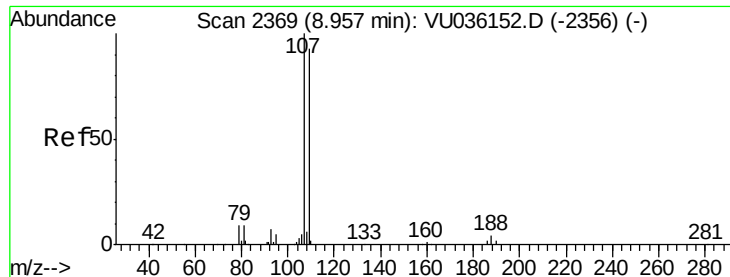
#49
Dibromochloromethane
Concen: 5.169 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036152.D
Acq: 12 Dec 2019 15:55

Tgt Ion:	129	Resp:	113831
Ion	Ratio	Lower	Upper
129	100		
127	78.1	54.7	101.5



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

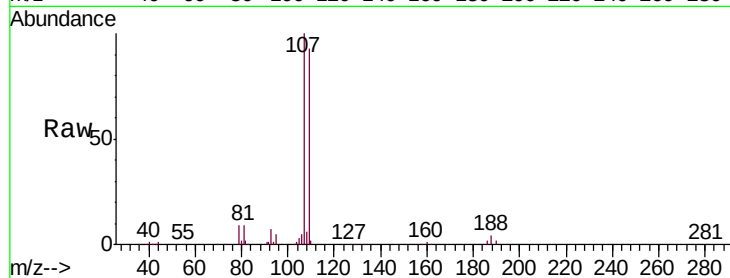




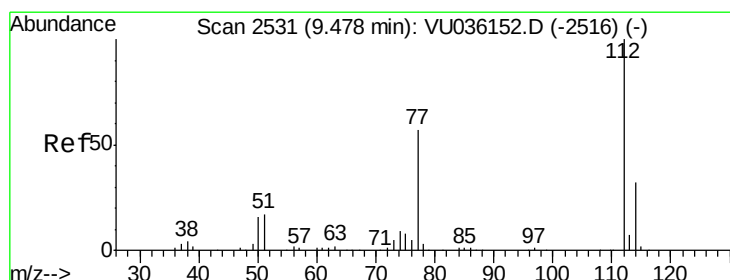
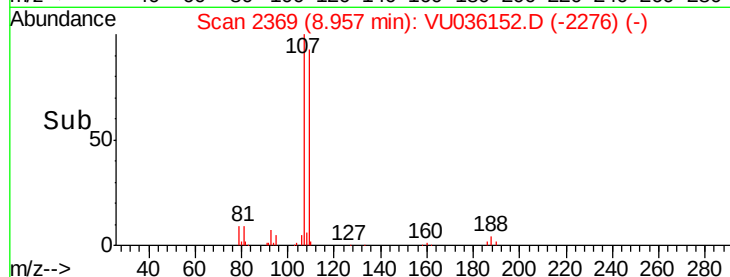
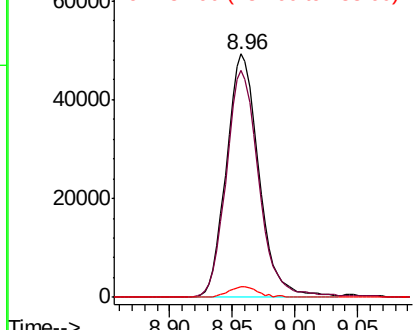
#50
1,2-Dibromoethane
Concen: 5.444 ug/L
RT: 8.96 min Scan# 2369
Delta R.T. 0.00 min
Lab File: VU036152.D
Acq: 12 Dec 2019 15:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.4	65.4	121.4
188	4.3	3.4	5.2

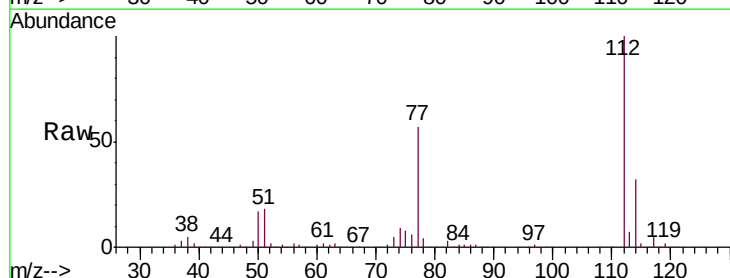


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

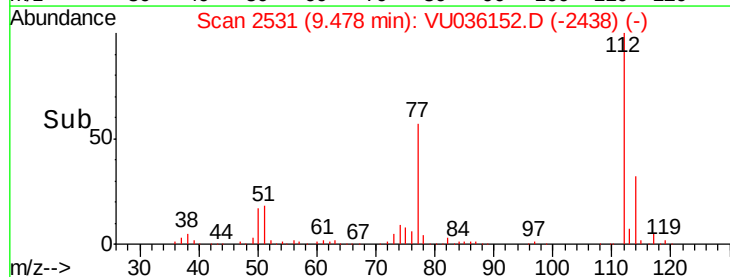
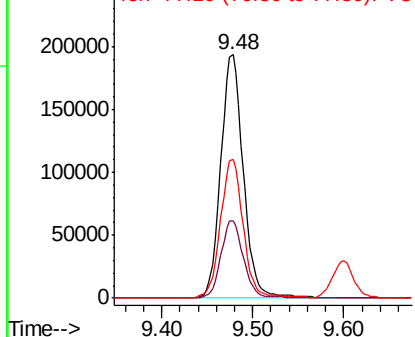


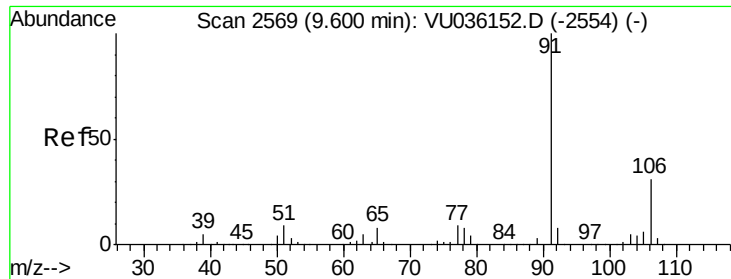
#51
Chlorobenzene
Concen: 5.258 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. 0.00 min
Lab File: VU036152.D
Acq: 12 Dec 2019 15:55

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.7	22.2	41.2
77	57.1	45.7	68.5



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 5.340 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

Instrument :

MSVOA_U

ClientSampleId :

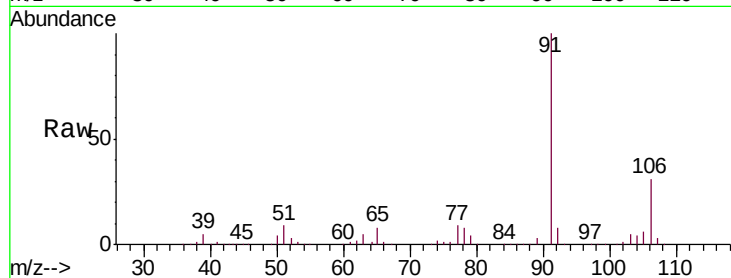
VSTD00502

Tgt Ion: 91 Resp: 507035

Ion Ratio Lower Upper

91 100

106 30.9 21.6 40.2



Abundance Ion 91.15 (90.85 to 91.85): VU036152.D (-2554) (-)

Ion 106.15 (105.85 to 106.85): VU036152.D (-2554) (-)

9.60

300000

200000

100000

0

Time-->

9.50 9.55 9.60 9.65 9.70

9.50 9.55 9.60 9.65 9.70

9.50 9.55 9.60 9.65 9.70

9.50 9.55 9.60 9.65 9.70

9.50 9.55 9.60 9.65 9.70

9.50 9.55 9.60 9.65 9.70

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9.50 9.55 9.60 9.65 9.70

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9.50 9.55 9.60 9.65 9.70

9.50 9.55 9.60 9.65 9.70

9.50 9.55 9.60 9.65 9.70

9.50 9.55 9.60 9.65 9.70

9.50 9.55 9.60 9.65 9.70

9.50 9.55 9.60 9.65 9.70

9.50 9.55 9.60 9.65 9.70

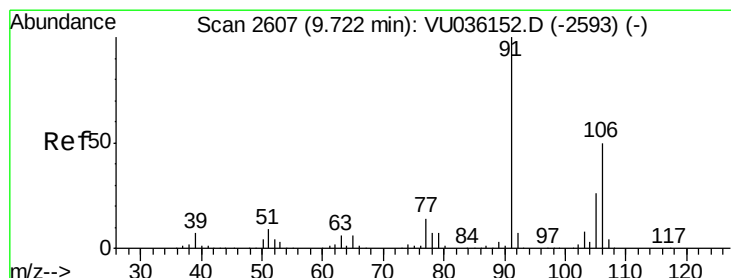
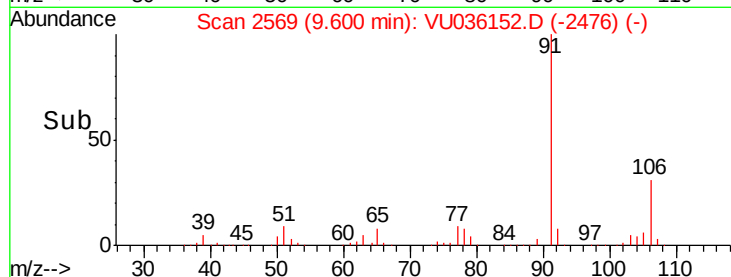
9.50 9.55 9.60 9.65 9.70

9.50 9.55 9.60 9.65 9.70

9.50 9.55 9.60 9.65 9.70

9.50 9.55 9.60 9.65 9.70

9.50 9.55 9.60 9.65 9.70



#53

m,p-Xylene

Concen: 5.351 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU036152.D

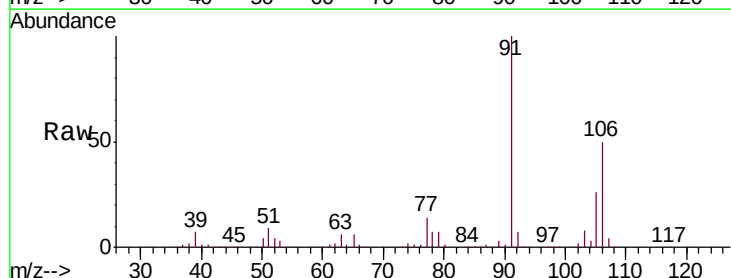
Acq: 12 Dec 2019 15:55

Tgt Ion: 106 Resp: 203565

Ion Ratio Lower Upper

106 100

91 200.6 140.4 260.8



Abundance Ion 106.15 (105.85 to 106.85): VU036152.D (-2593) (-)

Ion 91.15 (90.85 to 91.85): VU036152.D (-2593) (-)

9.72

300000

200000

100000

0

Time-->

9.70 9.75 9.80

9.70 9.75 9.80

9.70 9.75 9.80

9.70 9.75 9.80

9.70 9.75 9.80

9.70 9.75 9.80

9.70 9.75 9.80

9.70 9.75 9.80

9.70 9.75 9.80

9.70 9.75 9.80

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9.70 9.75 9.80

9.70 9.75 9.80

9.70 9.75 9.80

9.70 9.75 9.80

9.70 9.75 9.80

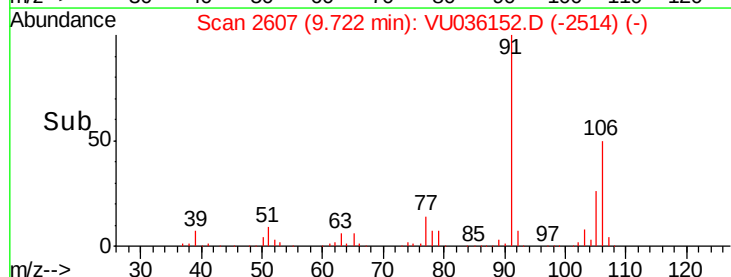
9.70 9.75 9.80

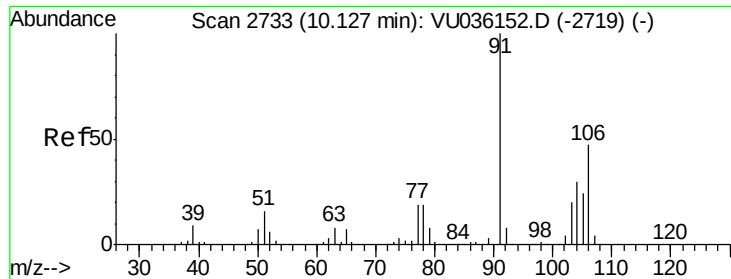
9.70 9.75 9.80

9.70 9.75 9.80

9.70 9.75 9.80

9.70 9.75 9.80

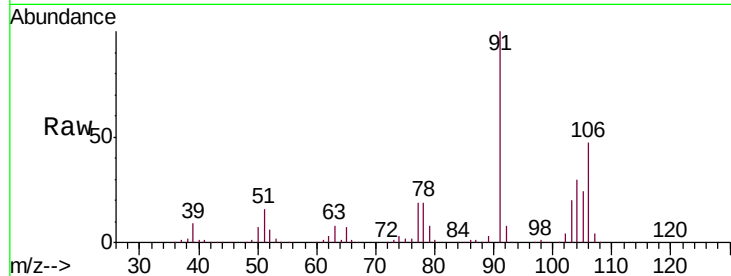




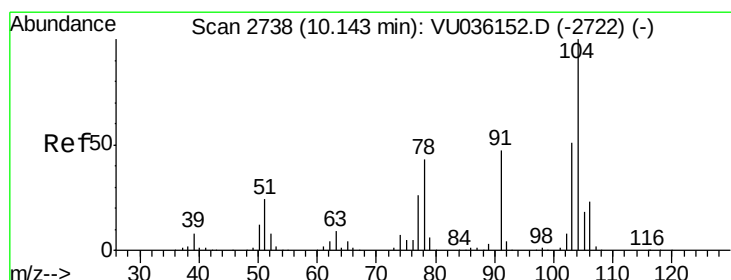
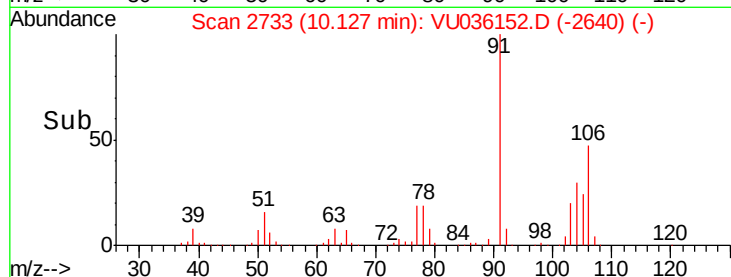
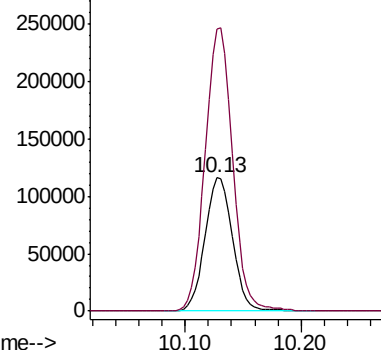
#54
o-Xylene
Concen: 5.274 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU036152.D
Acq: 12 Dec 2019 15:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

Tgt Ion:106 Resp: 191712
Ion Ratio Lower Upper
106 100
91 212.1 148.5 275.7

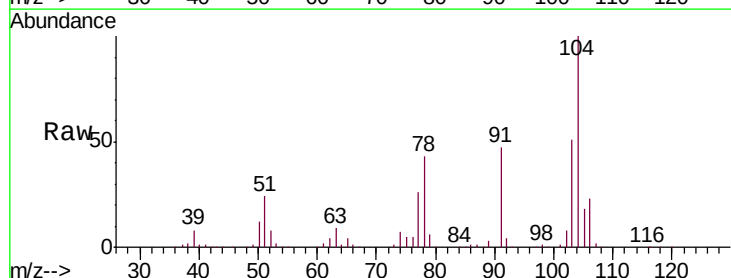


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

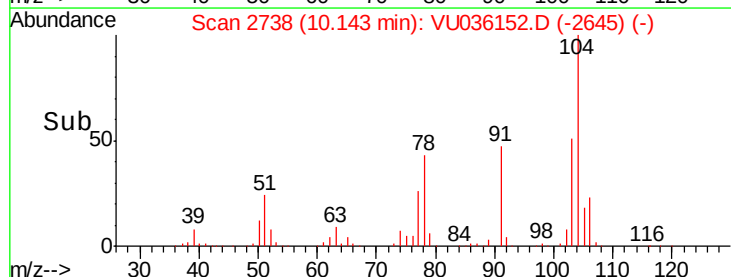
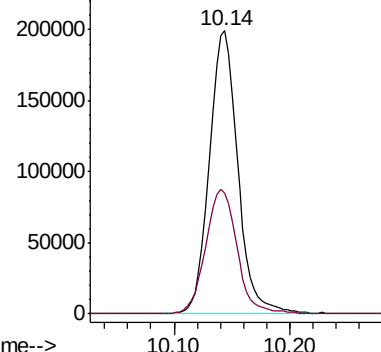


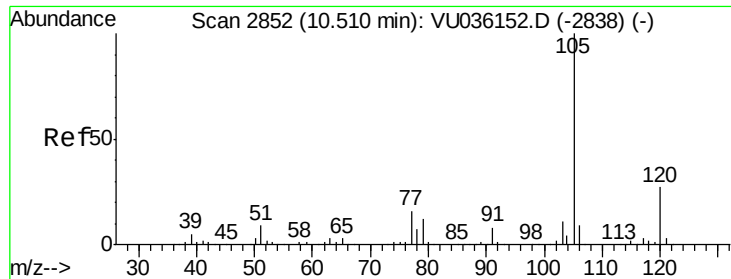
#55
Styrene
Concen: 5.398 ug/L
RT: 10.14 min Scan# 2738
Delta R.T. 0.00 min
Lab File: VU036152.D
Acq: 12 Dec 2019 15:55

Tgt Ion:104 Resp: 338200
Ion Ratio Lower Upper
104 100
78 42.9 30.0 55.8



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.182 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

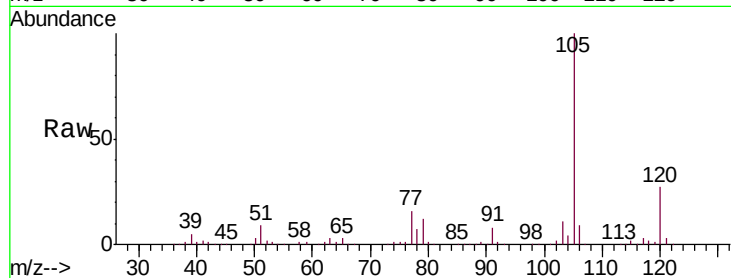
Tgt Ion: 105 Resp: 497396

Ion Ratio Lower Upper

105 100

120 26.5 21.2 31.8

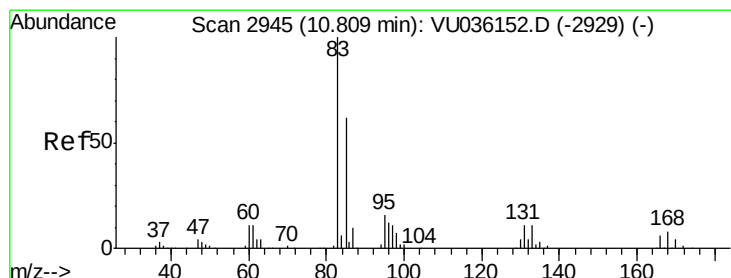
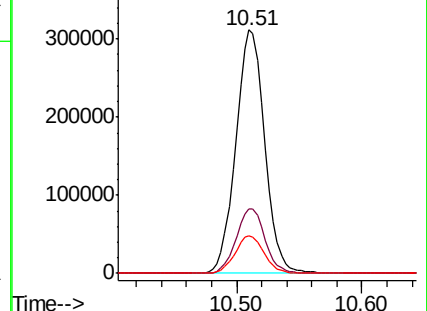
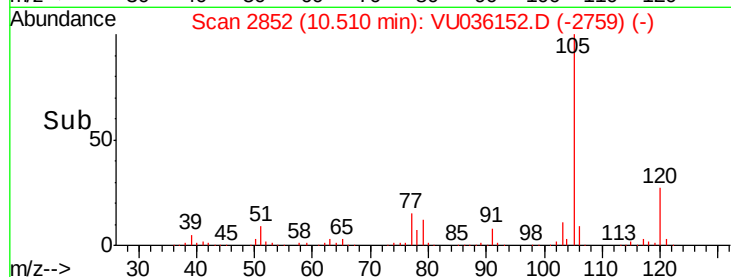
77 15.7 12.6 18.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.111 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

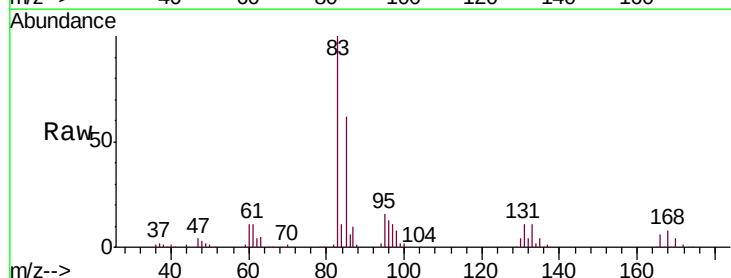
Tgt Ion: 83 Resp: 116595

Ion Ratio Lower Upper

83 100

85 61.7 43.2 80.2

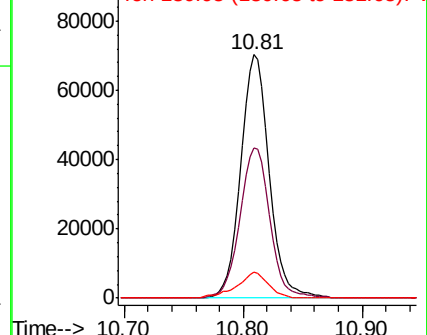
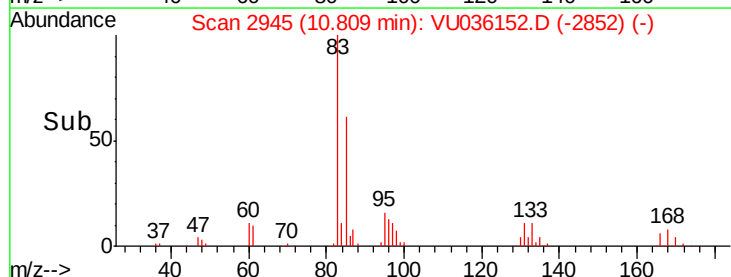
131 10.7 8.6 12.8

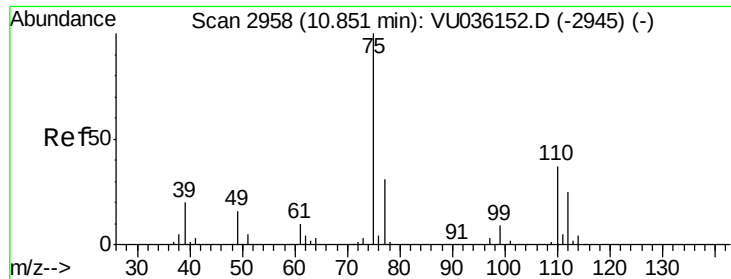


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.343 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

Instrument :

MSVOA_U

ClientSampleId :

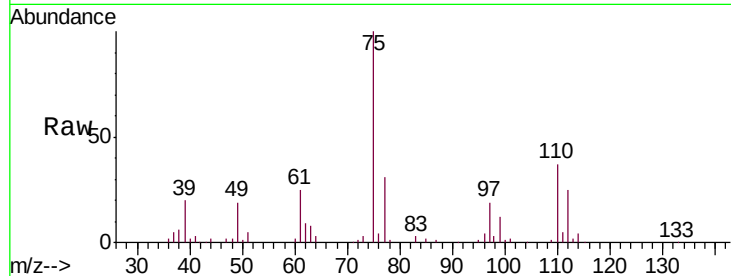
VSTD00502

Tgt Ion: 75 Resp: 84094

Ion Ratio Lower Upper

75 100

77 33.2 26.6 39.8

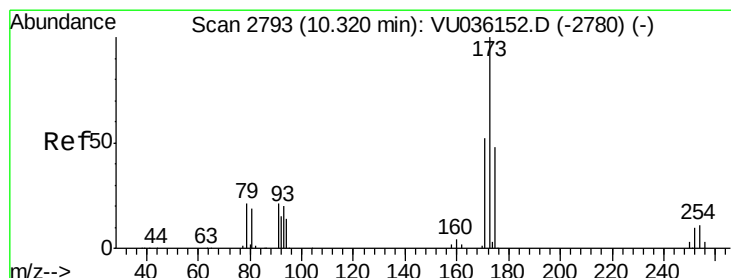
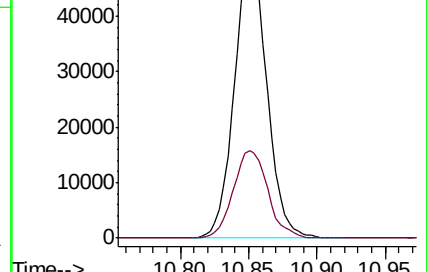
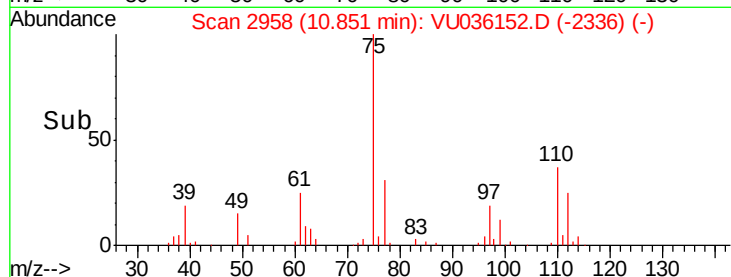


Abundance Ion 75.00 (74.70 to 75.70): VU036152.D (-2945) (-)

Ion 77.00 (76.70 to 77.70): VU036152.D (-2945) (-)

10.85

Time-->



#61

Bromoform

Concen: 4.304 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

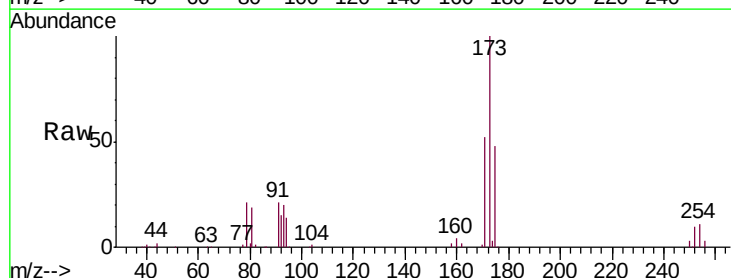
Tgt Ion: 173 Resp: 66475

Ion Ratio Lower Upper

173 100

175 48.9 39.1 58.7

254 10.0 8.0 12.0



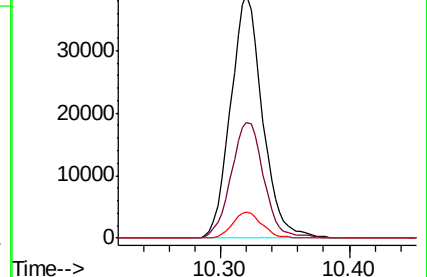
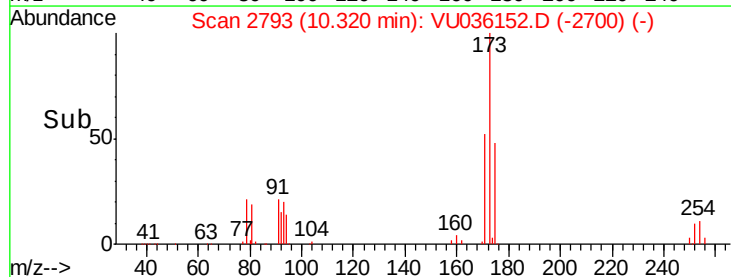
Abundance Ion 172.90 (172.60 to 173.60): VU036152.D (-2780) (-)

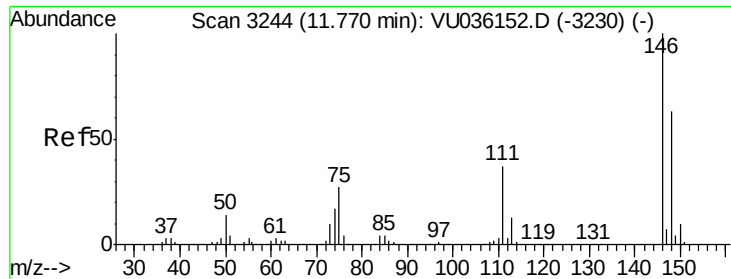
Ion 174.90 (174.60 to 175.60): VU036152.D (-2780) (-)

Ion 253.75 (253.45 to 254.45): VU036152.D (-2780) (-)

10.32

Time-->





#62

1,3-Dichlorobenzene

Concen: 5.150 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

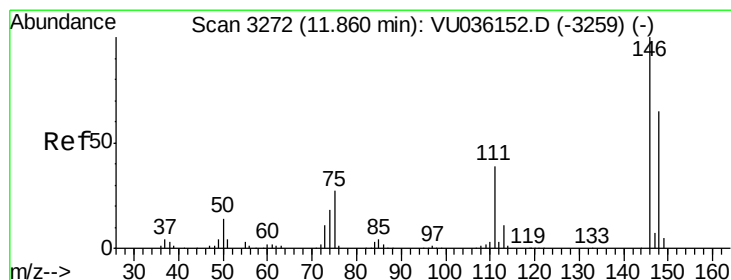
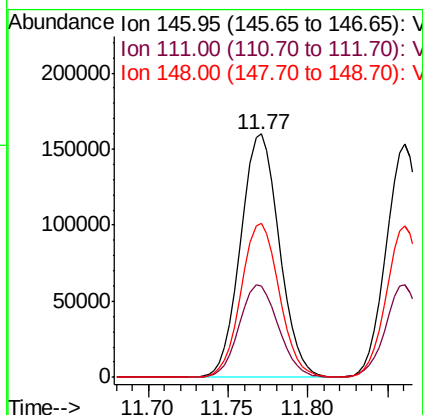
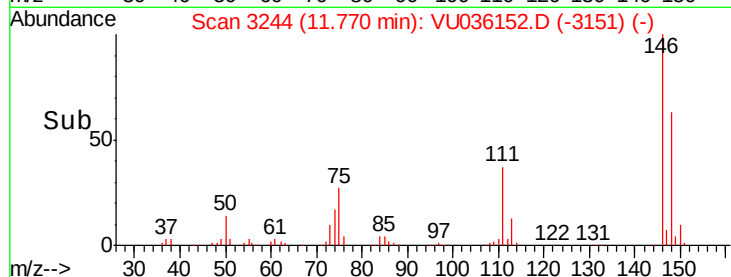
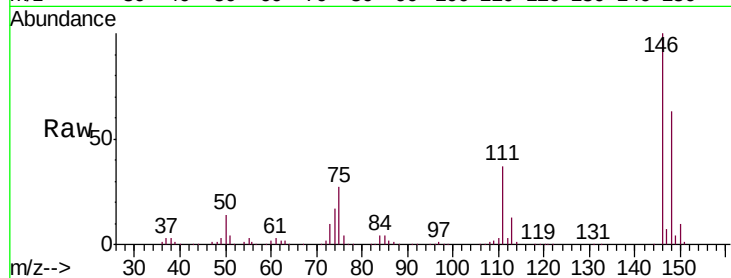
Tgt Ion:146 Resp: 264233

Ion Ratio Lower Upper

146 100

111 37.4 26.2 48.6

148 63.1 44.2 82.0



#63

1,4-Dichlorobenzene

Concen: 4.994 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

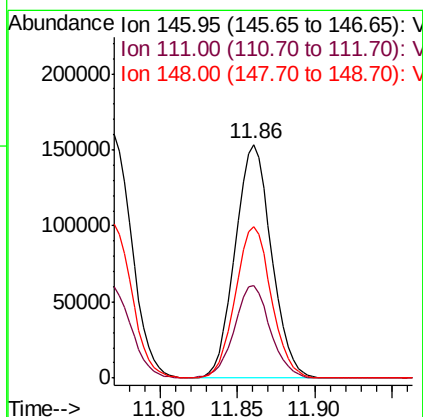
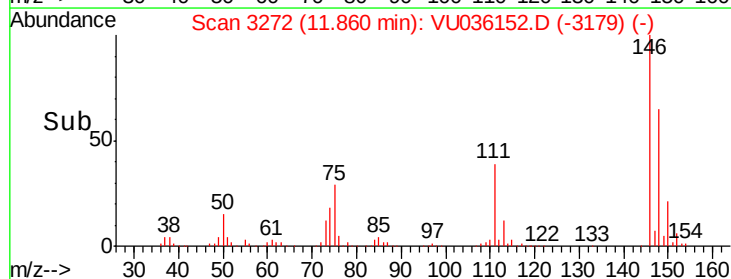
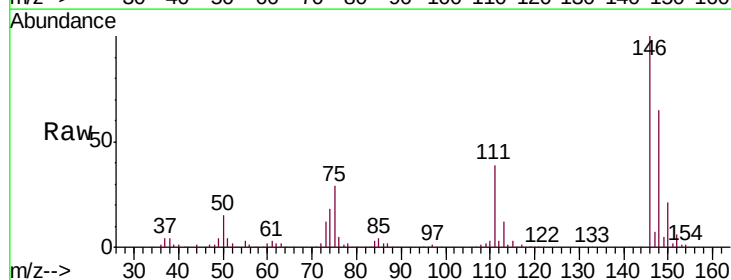
Tgt Ion:146 Resp: 250593

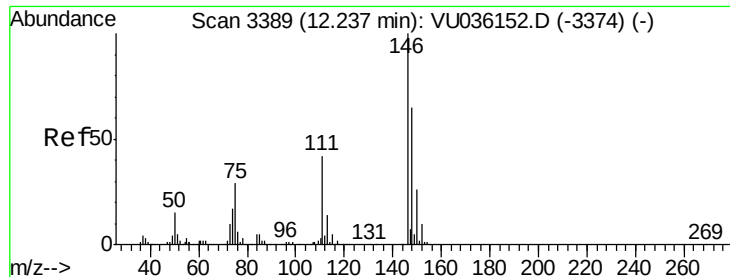
Ion Ratio Lower Upper

146 100

111 39.3 27.5 51.1

148 64.8 45.4 84.2

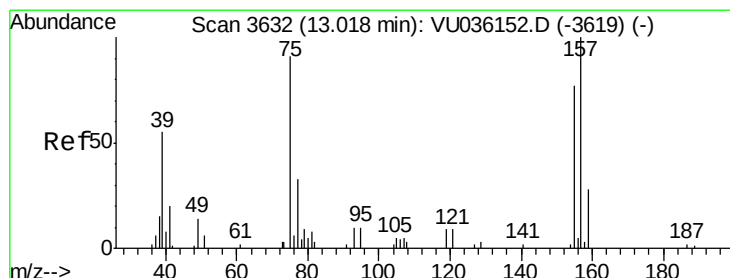
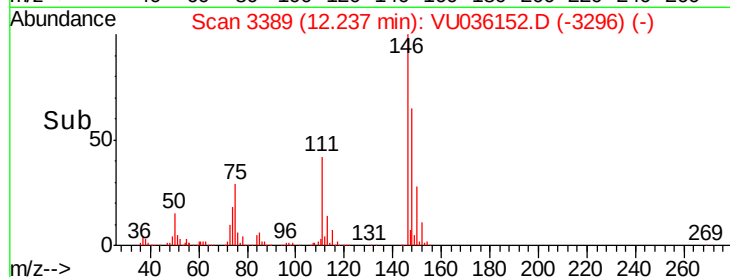
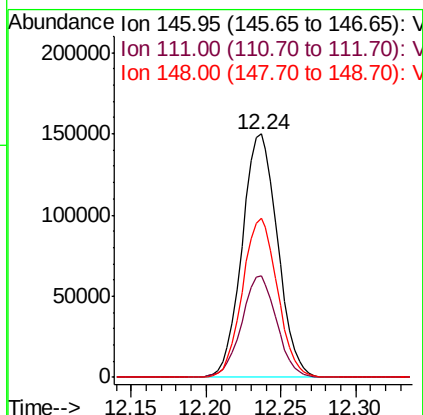
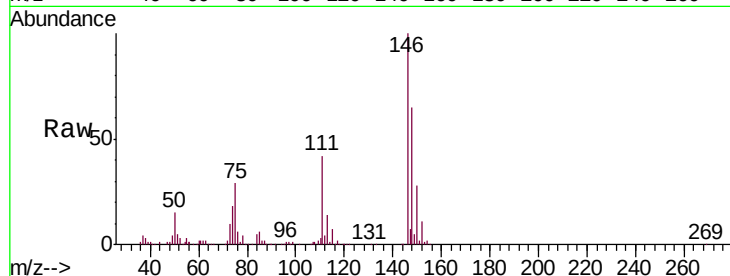




#65
 1,2-Dichlorobenzene
 Concen: 4.900 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VU036152.D
 Acq: 12 Dec 2019 15:55

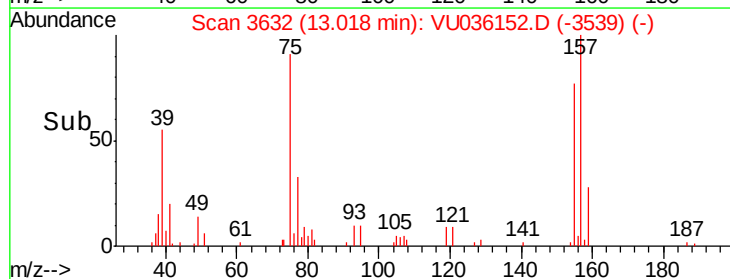
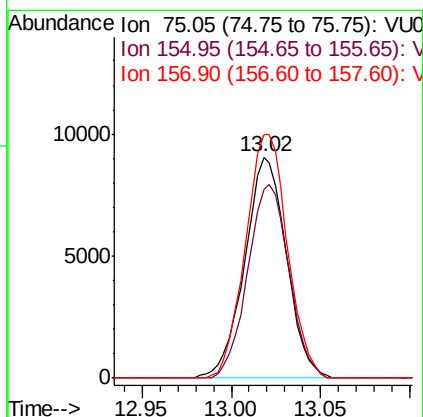
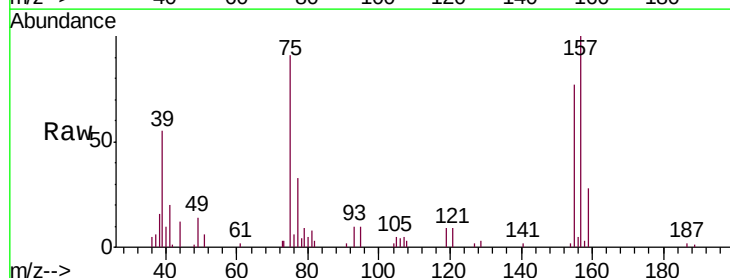
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

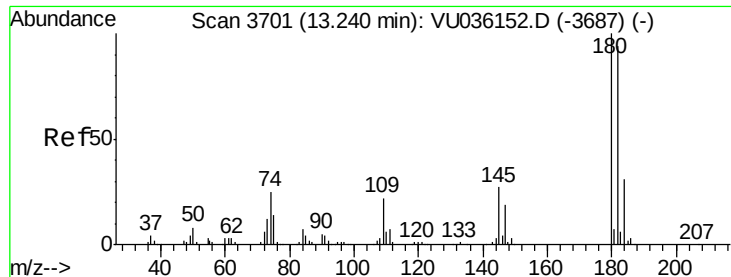
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.6	33.3	49.9
148	65.2	52.2	78.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.706 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. 0.00 min
 Lab File: VU036152.D
 Acq: 12 Dec 2019 15:55

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.2	68.2	102.2
157	110.2	88.2	132.2

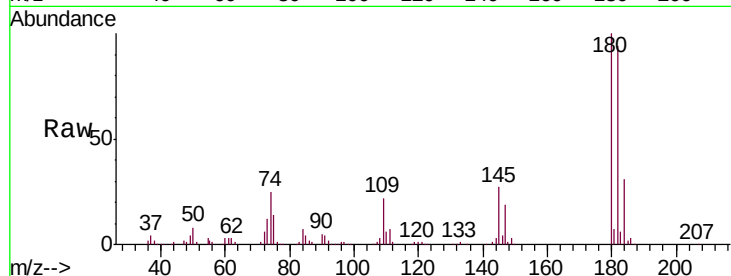




#67
 1,3,5-Trichlorobenzene
 Concen: 4.998 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU036152.D
 Acq: 12 Dec 2019 15:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

Tgt Ion:	180	Resp:	167881
Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.2	114.4
184	30.1	24.1	36.1
145	27.6	22.1	33.1



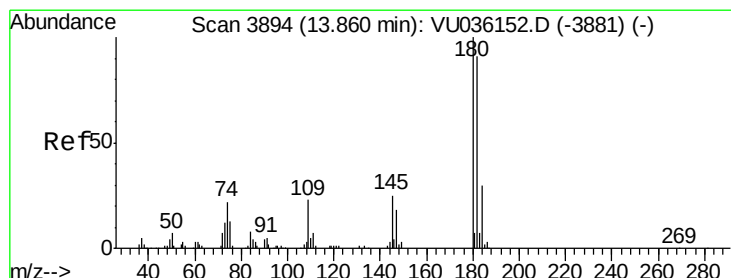
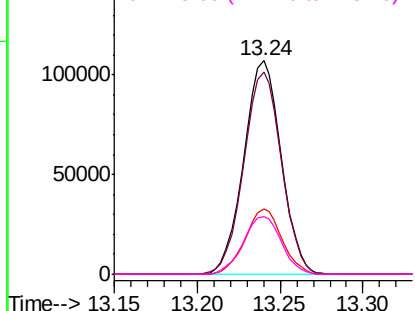
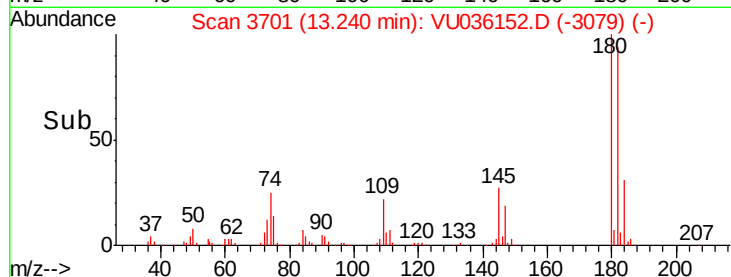
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

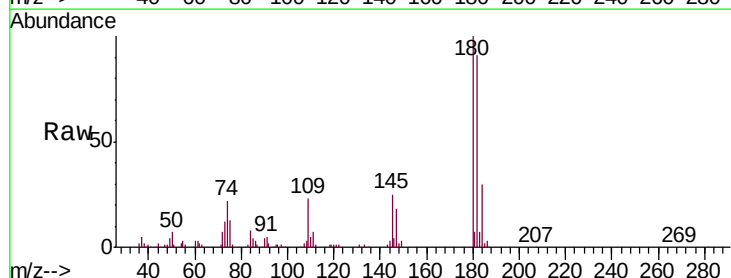
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.775 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU036152.D
 Acq: 12 Dec 2019 15:55

Tgt Ion:	180	Resp:	84824
Ion	Ratio	Lower	Upper
180	100		
182	93.8	75.0	112.6
145	27.2	21.8	32.6

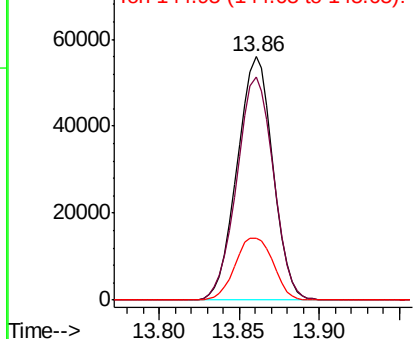
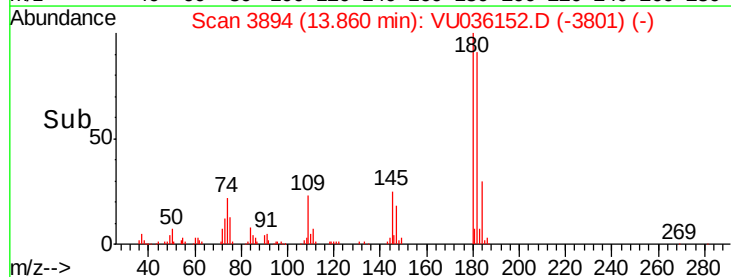


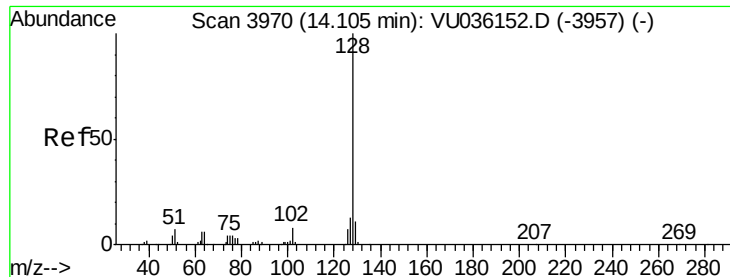
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.099 ug/L

RT: 14.10 min Scan# 3970

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

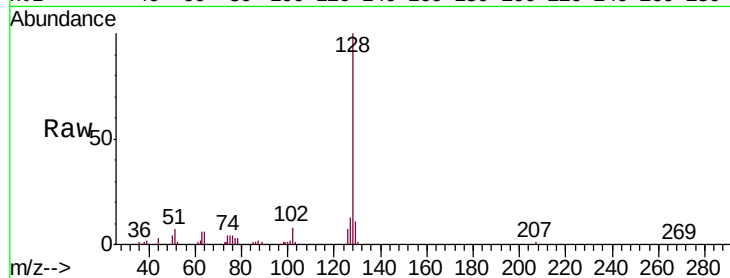
Tgt Ion:128 Resp: 71628

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

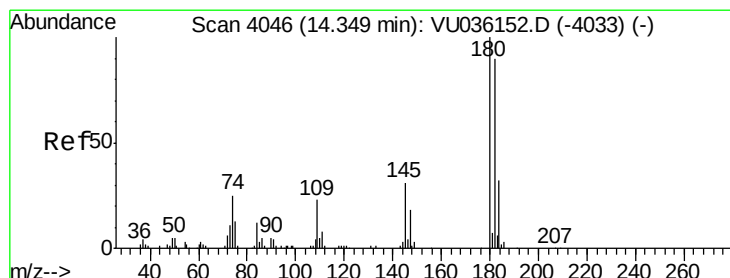
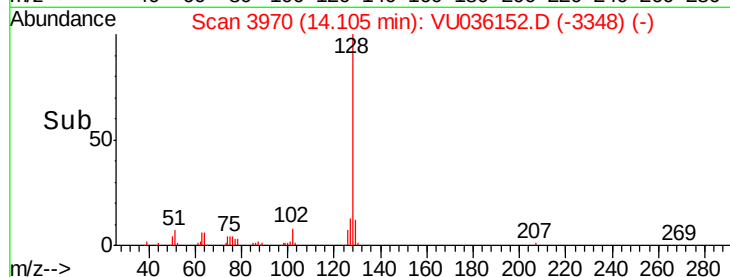
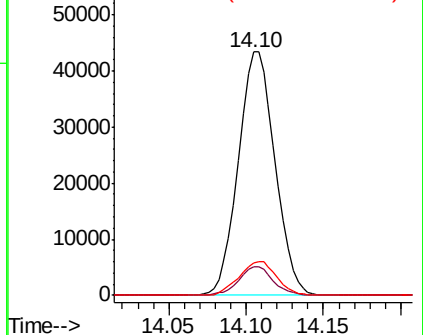
127 14.1 11.3 16.9



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.756 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. 0.00 min

Lab File: VU036152.D

Acq: 12 Dec 2019 15:55

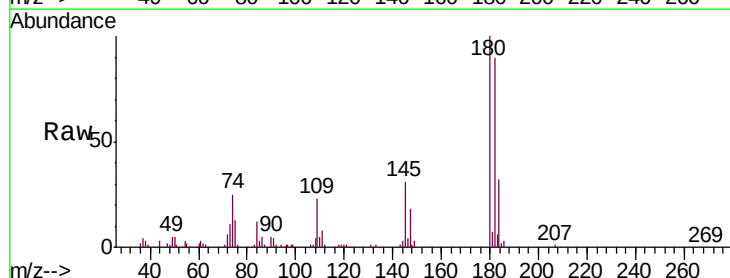
Tgt Ion:180 Resp: 82653

Ion Ratio Lower Upper

180 100

182 93.5 74.8 112.2

145 30.1 24.1 36.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

